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PRELIMINARY CONTAMINATION ASSESSMENT REPORT TRUMBO POINT FUEL FARM TRUMBO POINT ANNEX NAS KEY WEST FL

4/1/1994

ABB ENVIRONMENTAL SERVICES INC

0031

PRELIMINARY CONTAMINATION ASSESSMENT REPORT

TRUMBO POINT FUEL FARM
NAVAL AIR STATION KEY WEST
TRUMBO POINT ANNEX, KEY WEST, FLORIDA

Contract Task Order No. 095

Contract No. N62467-89-D-0317

Prepared by:

ABB Environmental Services, Inc.
2590 Executive Center Circle, East
Tallahassee, Florida 32301

Prepared for:

Department of the Navy, Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29418

Gabriel Magwood, Engineer-in-Charge

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Naval Air Station Key West
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GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
AST	aboveground storage tank
AVGAS	aviation gasoline
bls	below land surface
CA	contamination assessment
CAR	contamination assessment report
CEC	cation exchange capacity
cm/sec	centimeters per second
COD	chemical oxygen demand
CompQAP	Comprehensive Quality Assurance Plan
CTO	Contract Task Order
DFM	diesel fuel marine
EDB	ethylene dibromide
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FDER	Florida Department of Environmental Regulation
FOC	fraction of organic carbon
gpm	gallons per minute
ID	inside diameter
ITC	International Technology Corporation
JP-4	jet propellant 4 jet fuel
JP-5	jet propellant 5 jet fuel
meq/g	milliequivalents per gram
mg/kg	milligrams per kilogram
mm	millimeters
MOGAS	motor gasoline
msl	mean sea level
MTBE	methyl tert-butyl ether
NAS	Naval Air Station
OD	outside diameter
OVA	organic vapor analyzer
PAH	polynuclear aromatic hydrocarbons
PCA	preliminary contamination assessment
PCAP	Preliminary Contamination Assessment Plan
PCAR	Preliminary Contamination Assessment Report
PCBs	polychlorinated biphenyls
POA	Plan of Action

GLOSSARY (continued)

ppb	parts per billion
ppm	parts per million
PVC	polyvinyl chloride
SOUTHNAV-FACENGCOM	Southern Division, Naval Facilities Engineering Command
SPT	standard penetration test
TOC	total organic carbon
TPFF	Trumbo Point Fuel Farm
TRPH	total recoverable petroleum hydrocarbons
USCG	U.S. Coast Guard
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
UST	underground storage tank
VOA	volatile organic aromatics
VOCs	volatile organic compounds

1.0 INTRODUCTION

ABB Environmental Services, Inc. (ABB-ES), was contracted by Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM) to conduct a preliminary contamination assessment (PCA) and develop a Preliminary Contamination Assessment Report (PCAR) for the Trumbo Point Fuel Farm (TPFF) at Trumbo Point Annex, Naval Air Station (NAS) Key West, Florida. The scope of services for the work is described in Contract Task Order (CTO) No. 95, the Plan of Action (POA), and the Preliminary Contamination Assessment Plan (PCAP) for CTO No. 95.

1.1 PURPOSE. The purpose of the PCA was to assess the extent of petroleum contamination in soil and groundwater at the TPFF and recommend appropriate site investigations in accordance with Chapter 17-770, Florida Administrative Code (FAC), guidelines.

1.2 SCOPE. The scope of services developed to perform the PCA included:

- collection of soil samples and groundwater samples using a Geoprobe™ system,
- assessment of soil contamination by organic vapor analyzer (OVA) headspace techniques,
- installation of vertical extent monitoring wells to assess the vertical extent of groundwater contamination at the site,
- laboratory analyses of groundwater samples collected from Geoprobe™ borings and groundwater samples obtained from the vertical extent monitoring wells and previously installed monitoring wells, and
- reduction and analyses of all data gathered during the PCA to prepare a PCAR.

The following chapters of the report present the background information, data compilation, results, conclusions, and recommendations of the PCAR.

2.0 SITE DESCRIPTION AND HISTORY

NAS Key West, Monroe County, Florida, is located approximately 150 miles southwest of Miami. The TPFF is located along the northern shore of Key West, south of Fleming Key Cut (Figure 2-1). The TPFF is bordered on the north by Fleming Key Cut, on the west by a U.S. Coast Guard (USCG) facility, on the east by Mustin Street, and on the south by Whiting Avenue (Figure 2-2). Piers D-1, D-2, and D-3, located at the USCG facility, serve as a fuel depot for ships and aircraft.

The TPFF has been used as a fuel storage and distribution point since 1942 (Envirodyne Engineers, Inc., 1985). Fuels reported to have been stored and transported at the site include No. 6 fuel oil, Bunker C oil, diesel fuel, aviation gasoline (AVGAS), JP-4 and JP-5 jet fuels, motor gasoline (MOGAS), waste oil, and hydraulic fluids (Geraghty & Miller, 1987). According to Navy personnel, the TPFF is currently used to store and dispense diesel fuel marine (DFM), JP-5 fuel, and MOGAS.

The TPFF is the location of several aboveground storage tanks (ASTs), associated piping, and various pumphouses used to transport fuel from the ASTs (Figure 2-2). The site entrance is located along Trumbo Road near Building D-19. Building D-19 is used as an office and storage facility by site personnel. Buildings D-3A, D-15 through D-18, D-22 through D-25, D-26, and D-29 are pumphouses, which are now used or were formerly used to transport fuel from the site. The TPFF is surrounded by an 8-foot high chain-link fence. A concrete seawall extends along the northern perimeter of the site. The seawall is approximately 1-foot thick and extends to a depth of approximately 15 to 20 feet below land surface (bls).

Parts of the USCG facility were investigated during this preliminary assessment. Details of features at the USCG facility will be discussed in later sections.

2.1 ABOVEGROUND STORAGE TANKS. There are eight active and two inactive ASTs at the TPFF. AST volumes and construction details are presented in Table 2-1. Three JP-5 jet fuel tanks (tanks 1 through 3) are located in the north central and northeastern sections of the site. Tanks 1, 2, and 3 are operated by Key West Pipeline Company. Tanks D-1 through D-3, located along the western margin of the TPFF, are maintained by Avantra, Inc., and are used to store DFM. A 20,000-gallon MOGAS AST is located west of DFM tank D-2 at the western edge of the TPFF. A 1,000-gallon diesel AST is located on the east side of Building D-29 at the eastern edge of the TPFF. Two inactive DFM ASTs, tanks D-4 and D-6, are located in the central and southern sections of the TPFF, respectively.

Several ASTs, which formerly contained fuel, have been removed from the site. Eleven AVGAS tanks, installed in 1942 were abandoned in the late 1940's (Envirodyne Engineers, Inc., 1985). The locations of these former AVGAS tanks are not known. DFM ASTs D-5 and D-7, located in the southeast part of the site, were removed in 1985. Two 15,000-gallon MOGAS tanks located north of Building D-19 were removed in 1992 and replaced with the 20,000-gallon MOGAS tank currently in use.

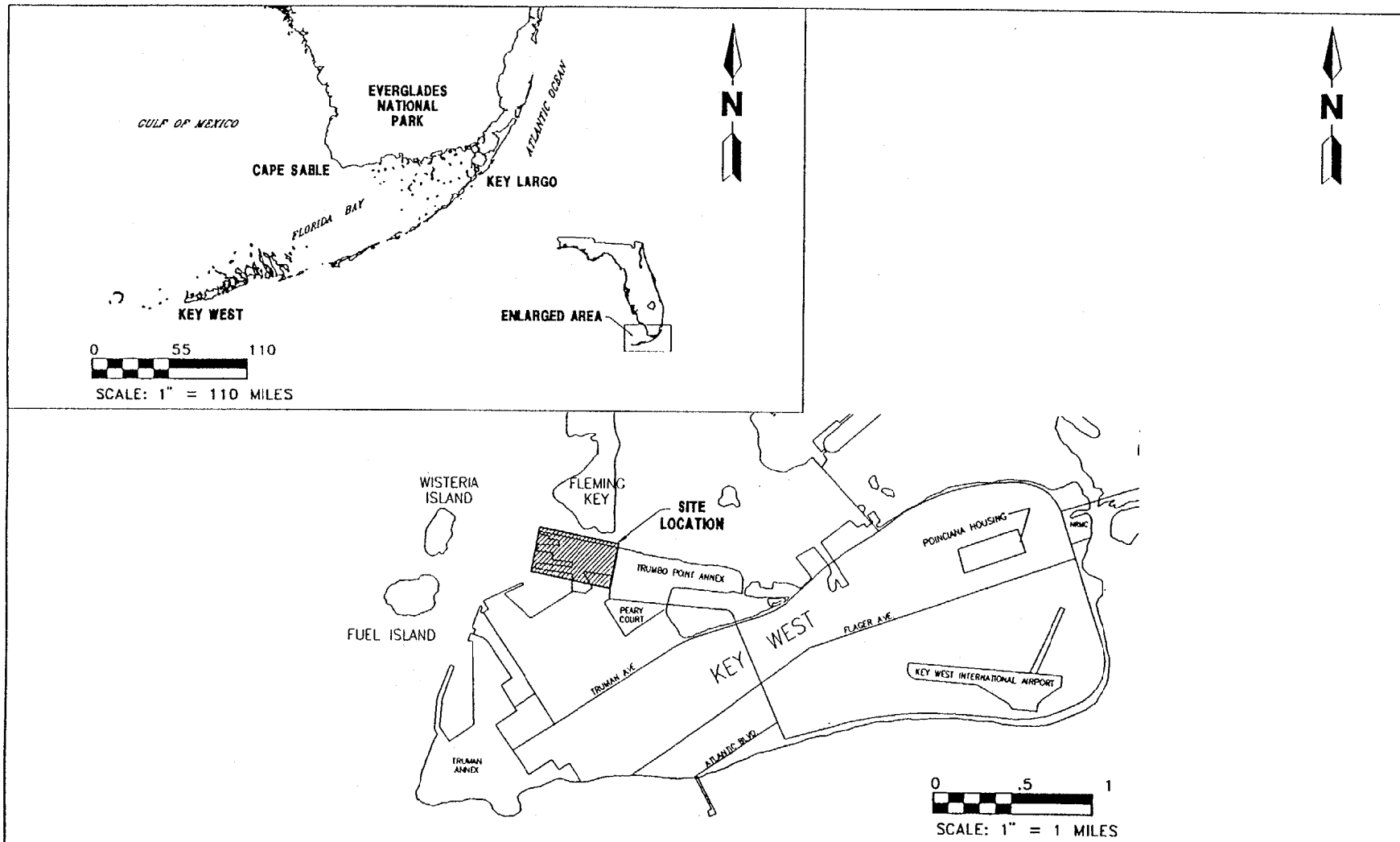

FIGURE 2-1
SITE LOCATION MAP

PRELIMINARY CONTAMINATION ASSESSMENT REPORT
TRUMBO POINT FUEL FARM

NAVAL AIR STATION
KEY WEST, FLORIDA

LOCMAP/04/18/94

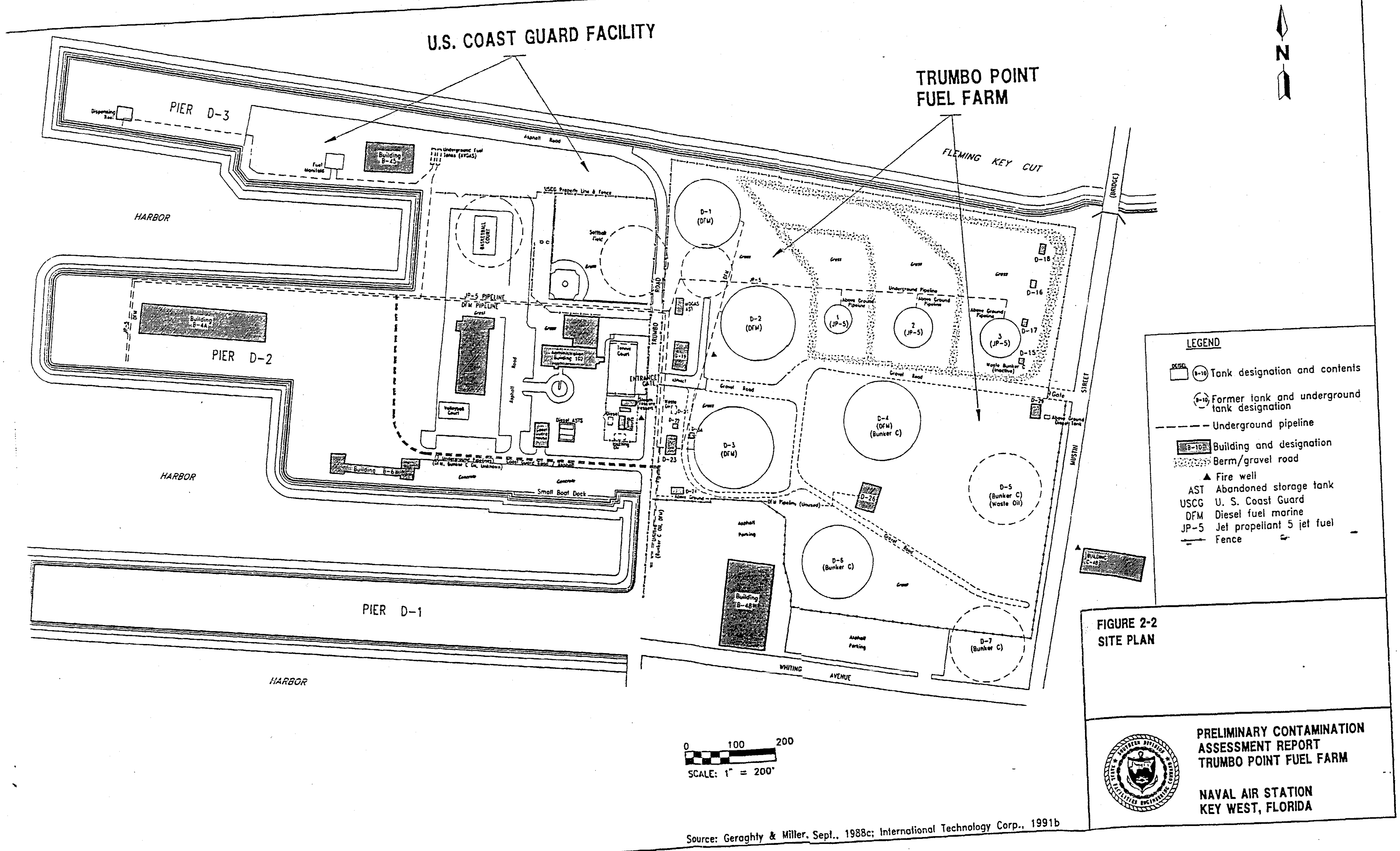
U.S. COAST GUARD FACILITY
TRUMBO POINT FUEL FARM
N
PIER D-3
PIER D-2
PIER D-1
HARBOR
HARBOR
HARBOR
FLEMING KEY CUT
(BRIDGE)
Dispensing Reel
Fuel Manifold
Building B-45
Underground Fuel Tanks (AVGAS)
Asphalt Road
USCG Property Line & Fence
BASKETBALL COURT
Softball Field
Grass
JP-5 PIPELINE
DFM PIPELINE
Building B-4A
JP-5
DFM
Administration Building 1C2
Tennis Court
Volleyball Court
Asphalt Road
Diesel ASTS
ENTRANCE GATE
TRUMBO ROAD
MOGAS AST
D-19
Asphalt
Steam Pressure Vessel
Waste Oil
D-21
D-22
D-23
D-24
Above Ground
DFM Pipeline (Unused)
Building B-6
Underground Pipelines (DFM, Bunker C Oil, Unknown)
Coast Guard Road / Asphalt
Concrete
Concrete
Small Boat Dock
Unused (Bunker C Oil, DFM)
D-1 (DFM)
D-2 (DFM)
D-3 (DFM)
D-4 (DFM) (Bunker C)
D-5 (Bunker C) (Waste Oil)
D-6 (Bunker C)
D-7 (Bunker C)
1 (JP-5)
2 (JP-5)
3 (JP-5)
JP-5
Underground Pipeline
Above Ground Pipeline
Above Ground Pipeline
Above Ground Pipeline
Gravel Road
Gravel Road
Gravel Road
D-15
D-16
D-17
D-18
Waste Bunker C (Inactive)
D-26
D-29
Gate
Above Ground Diesel Tank
MUSTIN STREET
Asphalt Parking
Asphalt Parking
Building B-48
BUILDING C-48
WHITING AVENUE
LEGEND
Tank designation and contents
Former tank and underground tank designation
Underground pipeline
B-10 Building and designation
Berm/gravel road
Fire well
AST Abandoned storage tank
USCG U. S. Coast Guard
DFM Diesel fuel marine
JP-5 Jet propellant 5 jet fuel
Fence
0 100 200
SCALE: 1" = 200'

FIGURE 2-2
SITE PLAN

PRELIMINARY CONTAMINATION ASSESSMENT REPORT
TRUMBO POINT FUEL FARM

NAVAL AIR STATION
KEY WEST, FLORIDA

Source: Geraghty & Miller, Sept., 1988c; International Technology Corp., 1991b

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Table 2-1
Storage Tank Data

Preliminary Contamination Assessment Report
Trumbo Point Fuel Farm
Naval Air Station Key West
Trumbo Annex, Key West, Florida

Tank	Contents	Capacity (gallons)	Status	Date Installed	Date Removed
1	JP-5[1]	1,050,000	Active AST	1966	--
2	JP-5[1]	2,310,000	Active AST	1966	--
3	JP-5[1]	2,310,000	Active AST	1966	--
D-1	DFM	563,201	Active AST	1942	--
D-2	DFM	563,201	Active AST	1942	--
D-3	DFM	563,201	Active AST	1942	--
D-4	Bunker C/DFM[2]	1,071,450	Inactive AST	1942	--
D-5	Bunker C/waste oil[3]	1,071,450	Removed AST	1942	1985
D-6	Bunker C	1,071,450	Inactive AST	1942	--
D-7	Bunker C	1,071,450	Removed AST	1942	1985
D-15	Unknown	20,000	Inactive UST	Unknown	--
D-16	Unknown	20,000	Inactive UST	Unknown	--
D-17	Unknown	20,000	Inactive UST	Unknown	--
D-18	Waste Bunker C	20,000	Inactive UST	Unknown	--
D-21[4]	Sludge/waste oil	1,050	Inactive UST	1942	1985
D-29	Diesel	1,000	Active AST	Unknown	--
D-1292	MOGAS	15,000	Removed AST	Unknown	December 1991
D-1292	MOGAS	20,000	Active AST	December 1991	--
D-1293	MOGAS	15,000	Removed AST	Unknown	December 1991

[1] Contained JP-4 jet fuel prior to 1975.
[2] Converted to DFM storage by 1985.
[3] Used for waste oil overflow from tank D-21 from 1982 to 1985.
[4] Underground storage tank.

Notes: JP-5 = jet propellant 5 jet fuel.
JP-4 = jet propellant 4 jet fuel.
DFM = diesel fuel marine.
MOGAS = motor gasoline.
-- = not removed.

Historical areal photographs indicate there were three large ASTs at the site in 1930 (La Gorce, 1930). Two of the three ASTs were located at the USCG facility (Figure 2-2); one near the present location of the basketball court and the second at the present location of the softball field near Trumbo Road. The third AST was located between DFM tanks D-1 and D-2. The contents of the three ASTs are unknown. Areal photographs suggest that they may have been used for fuel storage to supply ships docked at Piers D-1 through D-3. The ASTs were reportedly removed sometime during the early 1960's.

2.2 UNDERGROUND STORAGE TANKS. A 1,050-gallon underground storage tank (UST), tank D-21, was located north of Building D-22 on the west side of the site (Figure 2-2). The UST was installed in 1942 and was used as a ballast sludge tank (Envirodyne Engineers, Inc., 1985). By the 1970's, the UST was used for the storage of waste oil and hydraulic fluid. Until the late 1970's, the waste oil was sold to contractors who hauled the material from the TPFF. Subsequently, the waste oil was allowed to accumulate and, by 1982, the UST was full. Approximately 200 to 300 gallons of waste oil were transferred each month to tank D-5. Both tanks D-5 and D-21 were removed from the site around 1985. Four 20,000-gallon USTs (tanks D-15 through D-18) are located in the northeast corner of the TPFF and are associated with Buildings D-15 through D-18. All four tanks are inactive. Tank D-18 was used to store waste Bunker C oil. The former contents of the other three tanks are unknown.

2.3 FUEL PIPELINES. Several aboveground and underground fuel pipelines are located at the site (Figure 2-2). DFM and JP-5 pipelines are used to transport fuel to and from Pier D-2 at the USCG facility. Aboveground JP-5 pipelines extend north from JP-5 tanks 1 through 3 and connect with an underground JP-5 pipeline, which continues west to the USCG facility. Within the USCG facility, the JP-5 pipeline is aboveground along the north side of Pier D-2 and along the south side of the softball field. An underground DFM pipeline connects DFM tanks D-1, D-2, and D-3 and extends west to Trumbo Road from DFM tank D-3. The DFM pipeline then continues north along the east side of Trumbo Road to the MOGAS AST. From that point the pipeline extends west to Pier D-2, parallel to the JP-5 pipeline.

Several unused fuel pipelines are present at the TPFF site. An abandoned DFM pipeline extends from pumphouse D-26 near DFM tank D-4 to another abandoned DFM pipeline located along the west fenceline of the site. An abandoned underground Bunker C oil pipeline reportedly existed along the western fenceline of the TPFF parallel to the abandoned DFM pipeline.

According to USCG facility personnel, three abandoned underground pipelines are located under the USCG facility access road south of the tennis courts. One pipeline was used to transport DFM and a second transported Bunker C oil. The contents of the third line are unknown. The pipelines continue west along the access road, then turn north near Building B-6 toward the slip north of Pier D-2.

2.4 SITE TOPOGRAPHY AND SURFACE FEATURES. The land surface at the site is relatively flat, except where 8-foot high, gravel berms separate the JP-5 ASTs in the northern part of the site. Earthen mounds surround tanks D-1 through D-4, and D-6; and several gravel roads in the south section of the TPFF are graded

above the surrounding land surface. Except for the berms and mounds, ground elevations at the site vary from approximately 5 to 7 feet above mean sea level (msl). Most of the site is covered by grass, except paved areas in the vicinity of Building D-19 and the gravel roads and berms. Parking lots outside the southern edge of the TPFF near Building B-48 are covered with asphalt. Building B-48 activities are not related to activities at the TPFF.

There are three fire wells at or near the site. One fire well is located on the southwest side of DFM tank D-2, another is located near the northwest corner of Building C-48 on the west side of Mustin Street, and the third is located on the west side of Trumbo Road near the pumphouse at the USCG facility.

2.5 PREVIOUS FUEL RELEASES AND CONTAMINATION ASSESSMENTS. An initial assessment study indicated that two fuel releases occurred at the facility in 1981 (Envirodyne Engineers, Inc., 1985). In June 1981, there was a reported release of 5,000 to 6,000 gallons of DFM from a corroded pipeline located between tank D-4 and the D-26 pump house (Figure 2-3). All DFM was reportedly contained with no discharge to surface waters (Envirodyne Engineers, Inc., 1985). In October 1981, a pipeline leak on Pier D-2 at the USCG facility resulted in the discharge of 300 gallons of DFM into harbor waters. The spill was contained by boom and recovered (Envirodyne Engineers, Inc., 1985).

Contamination assessment investigations have been conducted at the TPFF since 1985, and several areas of concern were identified during these investigations (Figure 2-3). Geraghty & Miller (June 1985) conducted a subsurface hydrocarbon investigation during which 10 monitoring wells were installed at the TPFF. The Geraghty & Miller investigation confirmed the DFM contamination in the vicinity of tank D-4 reported by Envirodyne Engineers, Inc. (March 1985).

During a subsequent verification study (Geraghty & Miller, 1987), 15 soil borings were drilled and 6 additional monitoring wells were installed at the TPFF. Free product was detected in monitoring wells in the vicinity of JP-5 tanks 2 and 3, DFM tank D-4, and in the vicinity of Building D-23 located west of DFM tank D-3 and south of former waste oil tank D-21 (Figure 2-3). Dissolved petroleum constituents were detected in the vicinity of JP-5 tank 3. Additional site investigation and remedial action was recommended (Geraghty & Miller, 1987).

Another area of concern was identified along the northern boundary of the TPFF (Geraghty & Miller, 1988c). Geraghty & Miller personnel observed fuel seeping through openings in the seawall north of JP-5 tank 2 along the northern site boundary (Figure 2-3). The openings were sealed and a pit was excavated on the landward side of the seawall to recover free product. Several weeks later, fuel was again observed seeping through the seawall. The seawall was again sealed and another pit was excavated to recover the free product.

During an expanded site investigation (Geraghty & Miller, 1988b), free product detected in the vicinity of Building D-23, JP-5 tank 2, and DFM tank D-4 was confirmed. Free product was also detected in a monitoring well northwest of tank D-6. In addition, the September 1988 Geraghty & Miller investigation identified the following six other potentially contaminated areas at the site (Figure 2-3):

- the area north of DFM tank D-2 in the northwest section of the site, reportedly caused by overfilling tank D-2;

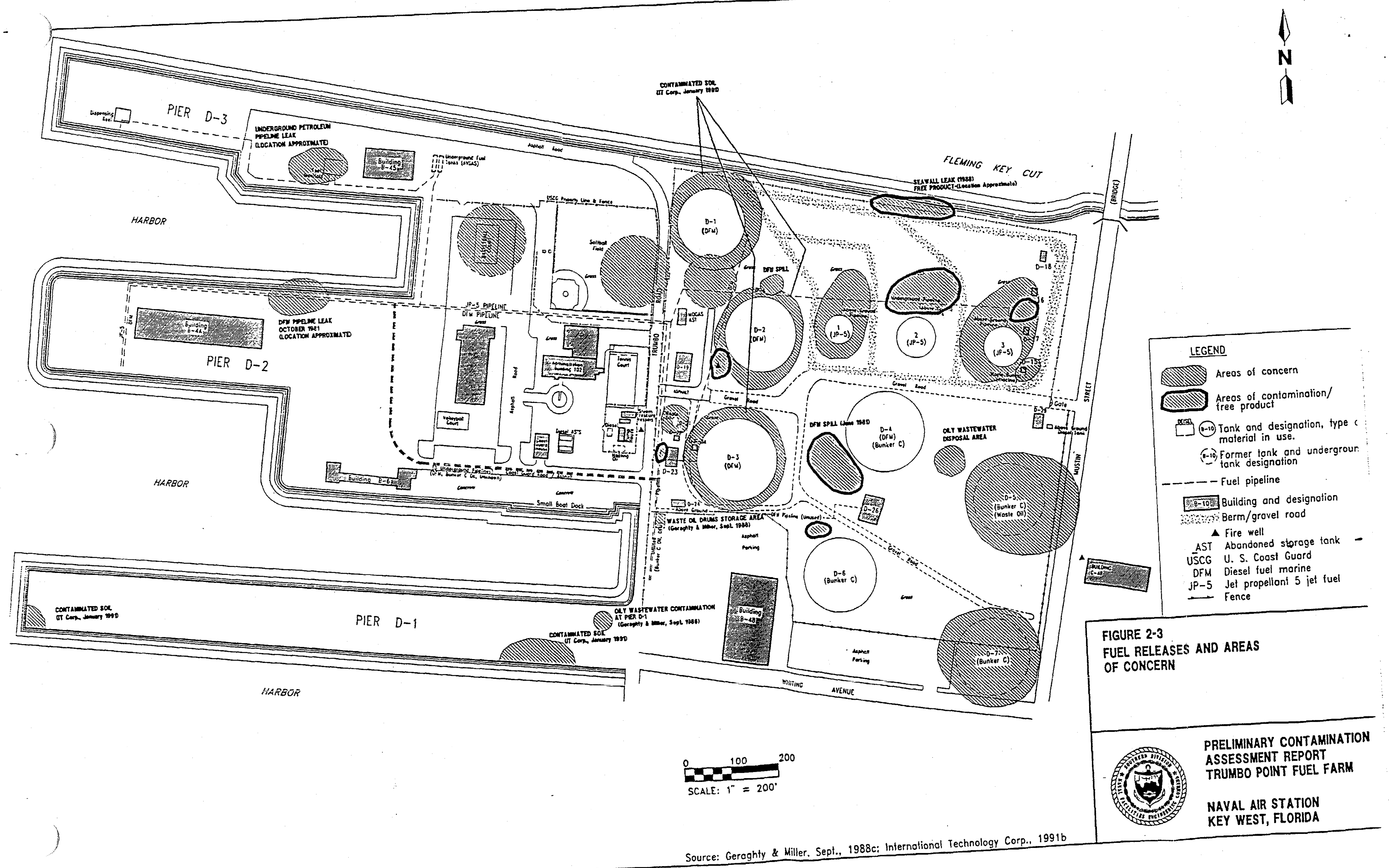


FIGURE 2-3
FUEL RELEASES AND AREAS OF CONCERN

PRELIMINARY CONTAMINATION ASSESSMENT REPORT
TRUMBO POINT FUEL FARM

NAVAL AIR STATION
KEY WEST, FLORIDA

Source: Geraghty & Miller, Sept., 1988c; International Technology Corp., 1991b

- the area between tank D-4 and former tank D-5 in the east-central section of the site, where oily wastewater was reportedly disposed;

- a waste oil drums storage area near an oil-water separator located south of Building D-24 on the western perimeter of the site;

- the former waste oil UST near Building D-23 located on the western perimeter of the site, where site personnel reported that the UST may have been used to store solvents, waste oil, pesticides, and polychlorinated biphenyls (PCBs);

- in two separate areas on Pier D-1 at the USCG facility suspected to result from releases of oily wastewater; and

- in the south central area of Pier D-3 at the USCG facility, where a release resulting from an underground petroleum pipeline is the reported source of contamination.

Geraghty & Miller (1988a) recommended further investigation at the TPFF and Piers D-1 and D-3 and presented a workplan for an expanded site investigation and remedial field investigation.

A supplemental site investigation was conducted by International Technology Corporation (ITC). Forty-four soil borings and four monitoring wells were completed and sampled. Excessive soil contamination as defined in Chapter 17-770, FAC, was detected in the vicinity of DFM tanks D-1 through D-3, and JP-5 tanks 1 and 2. Excessive soil contamination as defined in Chapter 17-770, FAC, was detected along the southern boundary of Pier D-1 at two separate locations (see Figure 2-3). ITC (1991b) recommended that remedial action be implemented at the site. The recommended remedial action included treating excessively contaminated soil and sampling groundwater from existing monitoring wells.

During an initial site inspection in November 1992, ABB-ES observed several other areas of concern (Figure 2-3):

- free product observed in a fire well located between Building D-19 and tank D-2 in the western part of the TPFF;

- the area surrounding JP-5 tank 1, located in the north central part of the TPFF;

- the area surrounding JP-5 tank 3, located in the northeast section of the TPFF;

- the area surrounding the inactive waste Bunker C tank (tank D-15) and tanks D-16 through D-18, located near JP-5 tank 3 in the northeastern section of the TPFF;

- the area surrounding former tank D-5 located in the eastern section of the TPFF; and

- the area surrounding former tank D-7 located in the southern part of the TPFF.

2.6 REMEDIAL PILOT STUDY NEAR DIESEL FUEL MARINE (DFM) TANK D-4. A remedial pilot study was designed to test and evaluate a method for treating contaminated groundwater and recovering subsurface liquid-phase hydrocarbons east of tank D-4 (Geraghty & Miller, 1988a). The pilot study was implemented by ITC in 1990 and 1991. The remedial system consisted of an infiltration gallery with a center sump equipped with groundwater and free product pumps. Recovered free product was pumped into a 5,000-gallon product tank. Contaminated groundwater was treated by an air sparger system designed to treat groundwater at the rate of 50 gallons per minute (gpm). A leach bed was used for the disposal of treated groundwater.

The remedial system operated for 180 days. Because of the low horizontal permeability of soil, the actual groundwater yield was 1 gpm. Approximately 1,000 gallons of free product were recovered and 155,000 gallons of groundwater were treated. ITC (1991a) concluded that the recovery system used at the TPFF site was not a feasible remedial alternative because the low hydraulic conductivity of the soil limits the formation of a capture zone and inhibits groundwater recovery and the transport of free product. ITC (1991a) recommended extensive trenching to remove contaminated soil and to improve access to free product, and a site bioassessment and biotreatability study to evaluate the feasibility of bioremediation.

3.0 PRELIMINARY CONTAMINATION ASSESSMENT

Data from previous field investigations indicate significant soil and groundwater petroleum contamination at the TPFF site. The horizontal and vertical extent of soil and groundwater contamination in many areas has not been adequately assessed. ABB-ES conducted a PCA to verify the findings of previous investigations and assess soil and groundwater contamination in areas not well documented during the previous investigations. The ABB-ES PCA was conducted from July through October 1993. At the request of the Navy, the area of investigation also included parts of the USCG facility, located west of the TPFF site.

During the PCA, 101 soil borings were drilled and 3 vertical extent monitoring wells were installed. Soil samples were collected from soil borings and analyzed for volatile organic compounds (VOCs) by OVA analysis. Groundwater samples were collected from monitoring wells installed during previous investigations and from monitoring wells and specific soil borings completed during this investigation. Groundwater samples collected from soil borings were analyzed for total recoverable petroleum hydrocarbons (TRPH). Groundwater samples collected from monitoring wells were analyzed for constituents of the kerosene and mixed product analytical group as defined in Chapter 17-770, FAC. Methodologies and equipment used during the PCA are discussed in Appendix A, Methodologies and Equipment.

3.1 SITE-SPECIFIC HYDROGEOLOGY. Site-specific hydrogeologic characteristics were based on information obtained during soil boring and monitoring well installation and from previous investigations.

Subsurface material from land surface to a depth of approximately 3 feet bls is composed of hard, sandy limestone fill mixed with gravel and shell fragments (ITC, 1991a). Material from 3 feet bls to approximately 13 feet bls is generally a soft, silty to sandy limestone mud. A sandy to gravelly limestone occurs from 13 feet bls to 50 feet bls (the maximum depth of site monitoring wells). Site lithologies are graphically presented in soil boring logs for monitoring wells MW-1D through MW-3D. Soil boring logs are attached in Appendix B, Soil Boring Logs.

Grain size, permeability, pH, moisture, cation exchange capacity (CEC), and total organic carbon (TOC) analyses were performed for a composite soil sample collected from 0 to 4 feet bls near Trumbo Road, northwest of DFM tank D-3 (ITC, 1991b). Grain size analysis was representative of poorly sorted sand and gravel with an average particle diameter of 3 millimeters (mm). Particles ranged in size from cobble to clay. The permeability was 1.8×10^{-6} centimeters per second (cm/sec), with a uniformity coefficient of 1,025.00. TOC content was 4,900 milligrams per kilogram (mg/kg), moisture content was 39.2 percent, pH was 8.35, and CEC was 49.22 milliequivalents per gram (meq/g).

The water table was encountered at depths from 4 to 7 feet bls during this investigation. A tidal study performed during August 1990 indicates that water elevations are tidally influenced (ITC, 1991b). Sea level fluctuations ranged from 0.9 feet below msl to 1.4 feet above msl, and groundwater elevations ranged from 0.4 to 3.0 feet above msl. Groundwater elevations derived from water level measurements in three wells indicated a northwest flow direction at the TPFF (ITC, 1991b). Measurements recorded during the investigation indicated no

consistent groundwater flow direction across the site, which suggests that tidal fluctuations are affecting groundwater flow direction.

3.2 SOIL ASSESSMENT. Soil borings SB-1 through SB-101 were drilled during the PCA. Soil borings SB-1 through SB-91 were drilled at the TPFF, and soil borings SB-92 through SB-101 were drilled at the USCG facility. Soil boring locations and corresponding OVA headspace measurements are presented on Figure 3-1. The highest OVA readings from samples collected above the water table for each soil boring are shown on Figure 3-1. Results of the OVA headspace survey are presented in Appendix C, Soil Sample Organic Vapor Analyzer (OVA) Headspace Results.

Soil with an OVA headspace reading greater than 10 parts per million (ppm) is considered to be petroleum-contaminated; soil with an OVA headspace reading greater than 50 ppm is considered to be excessively contaminated (FDER, 1992). Excessively contaminated soil was found throughout the TPFF and the USCG facility (Figure 3-1). The highest OVA readings (>2,500 ppm) were found in the vicinity of the three JP-5 tanks and DFM tank D-2.

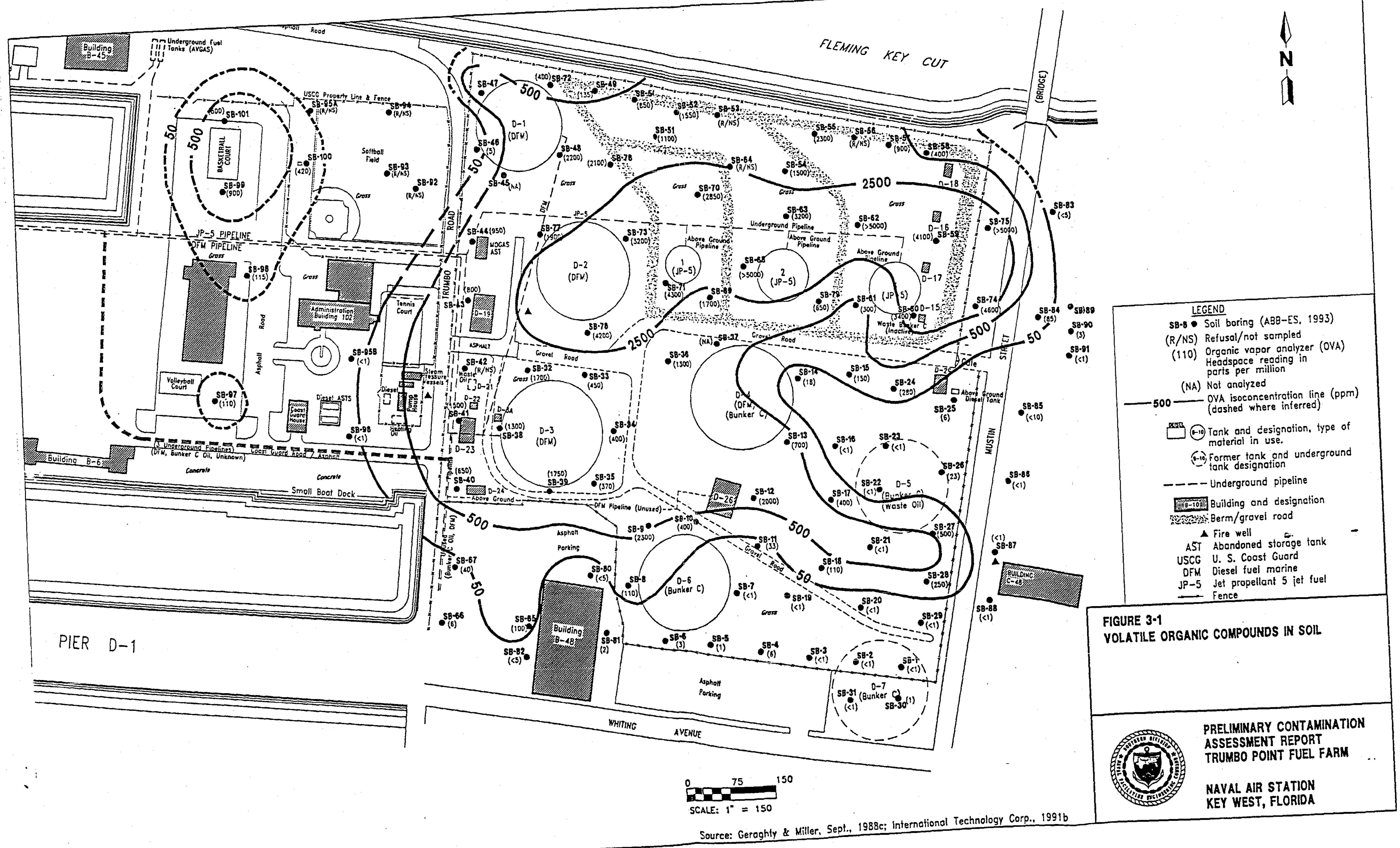
Based on the OVA data, the areal extent of soil contamination appears to be delineated along the eastern and southern boundaries of the TPFF. Petroleum-contaminated soil does not appear to extend south of tank D-6 and Building B-48 along the southern boundary of the site. With the exception of soil boring SB-84, petroleum-contaminated soil was not identified on the east side of Mustin Street. Excessive soil contamination is present along the entire northern section of the TPFF and was encountered over much of the western part of the site.

Excessively contaminated soil was also found at the USCG facility near the volleyball court and in the vicinity of the basketball court. Sufficient information is not currently available to determine the source(s) of soil contamination at the USCG facility; however, the low OVA headspace readings in soil borings SB-95 and SB-96, located southwest of the tennis courts, suggest that contamination near the volleyball court in soil boring SB-97 may be from a local source.

A soil sample was collected from soil boring SB-9, located near tank D-6, and analyzed for TRPH, arsenic, cadmium, chromium, and lead. Soil sample laboratory analyses are attached in Appendix D, Soil Analytical Data. The TRPH concentration was 3,600 ppm. Total metal concentrations were below detection limits.

3.2 GROUNDWATER ASSESSMENT. Monitoring well locations and soil borings from which groundwater samples were collected are shown on Figure 3-2. Monitoring wells KWM-01 through KWM-10, and KWM-20 through KWM-25 were installed during the Geraghty & Miller investigations conducted from 1985 to 1988. Monitoring wells MW9-10 through MW9-17 were installed by ITC from 1989 to 1991. Monitoring wells MW-1D through MW-3D are the vertical extent wells installed by ABB-ES during this investigation. Well construction information details are presented in Table 3-1.

No information was found concerning the installation history and construction details for monitoring well MW-JP-1, located near JP-5 tank 1.

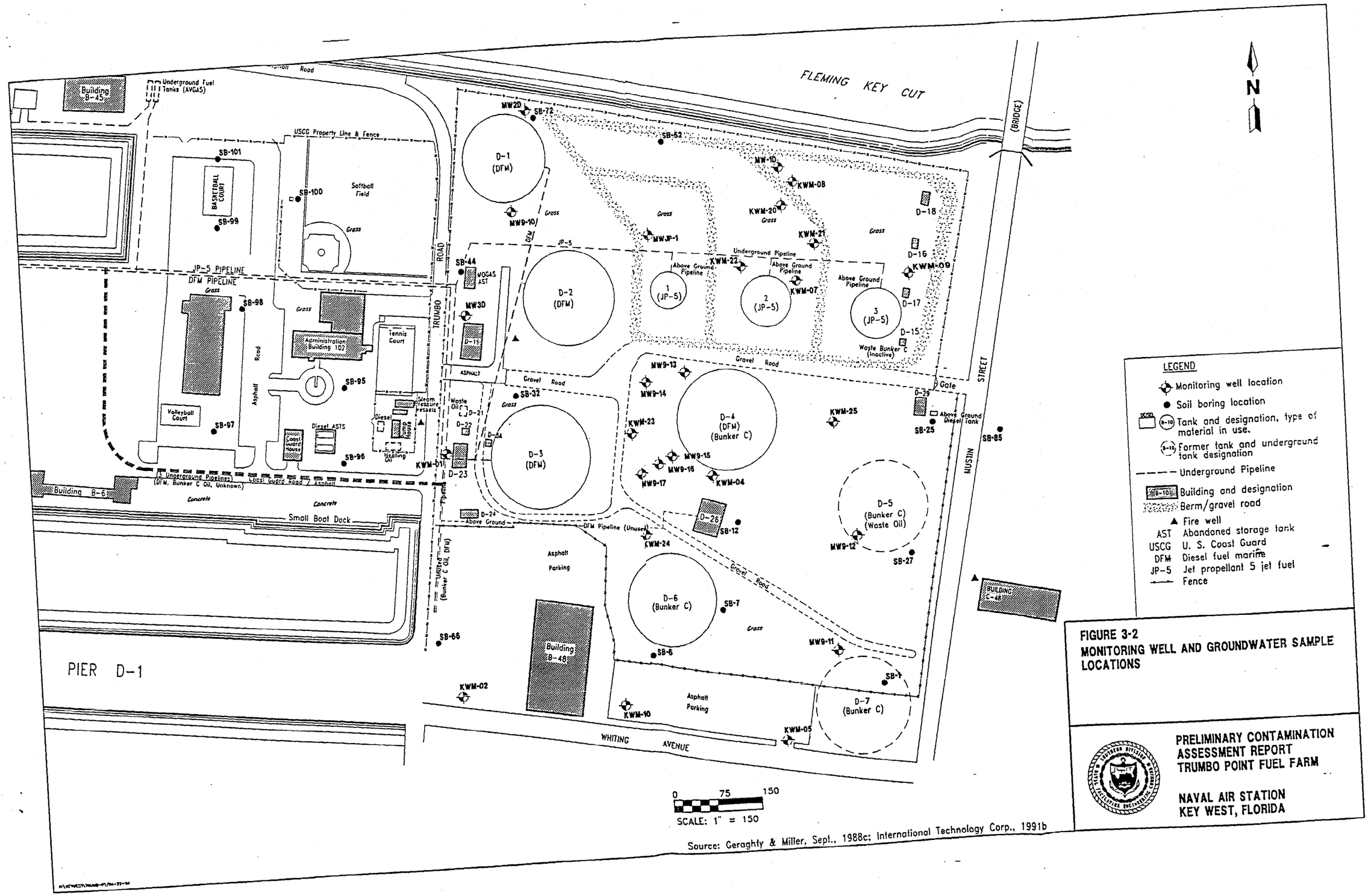

FLEMING KEY CUT
(BRIDGE)
N
Building B-45
Underground Fuel Tanks (AVGAS)
USCG Property Line & Fence
BASKETBALL COURT
Softball Field
JP-5 PIPELINE
DFM PIPELINE
Administration Building 102
Tennis Court
Volleyball Court
Coast Guard House
Diesel ASTS
Steam Pressure Vessels
Pump House
Heating Oil
3 Underground Pipelines (DFM, Bunker C Oil, Unknown)
Coast Guard Road / Asphalt
Building B-6
Concrete
Small Boat Dock
PIER D-1
TRUMBO ROAD
MOGAS AST
D-1 (DFM)
D-2 (DFM)
D-3 (DFM)
1 (JP-5)
2 (JP-5)
D-4 (DFM) (Bunker C)
D-5 (Bunker C) (Waste Oil)
D-6 (Bunker C)
D-7 (Bunker C)
Underground Pipeline
Above Ground Pipeline
Gravel Road
DFM Pipeline (Unused)
Asphalt Parking
Building B-48
Building C-48
WHITING AVENUE
MUSTIN STREET
0 75 150
SCALE: 1" = 150
LEGEND
SB-8 ● Soil boring (ABB-ES, 1993)
(R/NS) Refusal/not sampled
(110) Organic vapor analyzer (OVA) Headspace reading in parts per million
(NA) Not analyzed
500 OVA isoconcentration line (ppm) (dashed where inferred)
Tank and designation, type of material in use.
Former tank and underground tank designation
Underground pipeline
Building and designation
Berm/gravel road
▲ Fire well
AST Abandoned storage tank
USCG U. S. Coast Guard
DFM Diesel fuel marine
JP-5 Jet propellant 5 jet fuel
Fence

Source: Geraghty & Miller, Sept., 1988c; International Technology Corp., 1991b

FIGURE 3-1
VOLATILE ORGANIC COMPOUNDS IN SOIL

PRELIMINARY CONTAMINATION ASSESSMENT REPORT
TRUMBO POINT FUEL FARM

NAVAL AIR STATION
KEY WEST, FLORIDA



Source: Geraghty & Miller, Sept., 1988c; International Technology Corp., 1991b

FIGURE 3-2
MONITORING WELL AND GROUNDWATER SAMPLE LOCATIONS

PRELIMINARY CONTAMINATION ASSESSMENT REPORT
TRUMBO POINT FUEL FARM

NAVAL AIR STATION
KEY WEST, FLORIDA

Table 3-1
Monitoring Well Construction Information

Preliminary Contamination Assessment Report
Trumbo Point Fuel Farm
Naval Air Station Key West
Key West, Florida

Well	Top of Casing (feet)	Screened Interval (feet)	Total Depth (feet)	Date	Status	Installed By
KWM-01	--	NA	NA	6/85	CNL	G&M
KWM-02	6.15	NA	NA	6/85	Active	G&M
KWM-03	--	NA	NA	6/85	Destroyed	G&M
KWM-04	7.3	NA	NA	6/85	Active	G&M
KWM-05	6.76	NA	NA	6/85	Active	G&M
KWM-06	--	NA	NA	6/85	Destroyed	G&M
KWM-07	7.38	NA	NA	6/85	Active	G&M
KWM-08	6.31	NA	NA	6/85	Active	G&M
KWM-09	7.03	NA	NA	6/85	Active	G&M
KWM-10	--	NA	NA	6/85	CNL	G&M
KWM-20	6.81	1 to 15	15	7/86	Active	G&M
KWM-21	7.51	1 to 15	15	7/86	Active	G&M
KWM-22	7.76	1 to 15	15	7/86	Active	G&M
KWM-23	6.94	0.5 to 15	15	7/86	Active	G&M
KWM-24	6.41	0.5 to 15	15	7/86	Active	G&M
KWM-25	7.05	0.5 to 15	15	7/86	Active	G&M
MW9-10	9.73	NA	NA	NA	Active	ITC
MW9-11	10.47	NA	NA	NA	Active	ITC
MW9-12	9.57	NA	NA	NA	Active	ITC
MW9-13	6.66	5 to 15	15	6/5/90	Active	ITC
MW9-14	NM	5 to 15	15	6/5/90	Active	ITC
MW9-15	5.9	5 to 15	15	6/5/90	Active	ITC
MW9-16	5.73	5 to 15	15	6/5/90	Active	ITC
MW9-17	5.86	5 to 15	15	6/6/90	Active	ITC
MW-1D	6.58	40 to 45	45	8/17/93	Active	ABB
MW-2D	6.45	45 to 50	50	8/18/93	Active	ABB
MW-3D	6.11	45 to 50	50	8/18/93	Active	ABB
MW-JP-1	8.78	NA	NA	NA	Active	NA

Notes: NA = information not currently available.
CNL = could not locate well.
G&M = Geraghty & Miller, Inc.
ITC = ITC Corporation.
ABB-ES = ABB Environmental Services, Inc.
-- = unknown.

Groundwater samples were collected from soil borings in July and August 1993. TRPH analyses were performed for samples collected from soil borings SB-1, SB-6, SB-7, SB-12, SB-25, SB-27, SB-32, SB-44, SB-52, SB-66, SB-72, SB-85, SB-95, SB-96, SB-97, SB-98, and SB-99. Duplicate analyses were performed for samples collected from soil borings SB-1, SB-32, and SB-97.

Groundwater samples were collected from monitoring wells MW-1D through MW-3D, KWM-08, KWM-09, KWM-20, KWM-21, KWM-24, KWM-25, MW9-11, and MW9-13 from August 31 through September 2, 1993. A duplicate sample was collected from monitoring well MW-3D. Monitoring wells KWM-01 and KWM-10 could not be located and apparently have been destroyed. Monitoring wells KWM-02 and KWM-05, located along Whiting Avenue south of the TPFF, were not sampled because they are outside the contaminated area. The remaining monitoring wells were not sampled because they contained free product.

3.2.1 Free Product Contamination Free product was detected in monitoring wells KWM-07, KWM-22, KWM-23, MW9-10, MW9-12, MW9-13, MW9-15, MW9-17, MW-JP-1, and the fire well located southwest of DFM tank D-2. Viscous free product was also detected in SB-44 (located near the MOGAS AST), the underground JP-5 pipeline, and an abandoned Bunker C oil pipeline. Viscous free product was also detected in soil boring SB-101, located near the basketball court at the USCG facility.

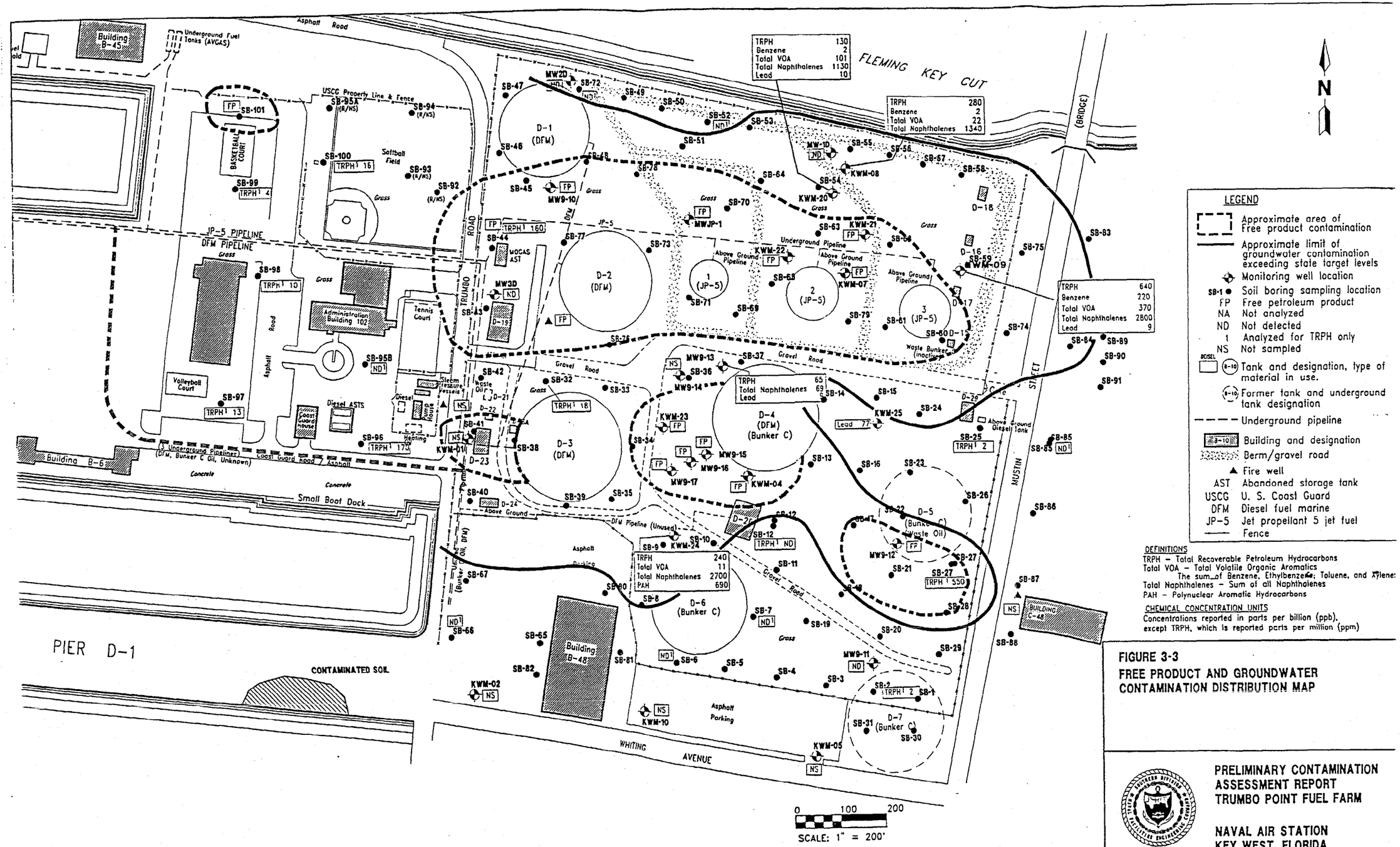
The approximate areal extent of free product in soil and groundwater is shown on Figure 3-3. Free product is extensive in the northern part of the TPFF around JP-5 tanks 1, 2, and 3 and DFM tank D-2. Current data indicate that free product does not extend to the seawall. Free product appears to extend west to the USCG facility; however, it has not been delineated in this direction.

Free product was observed in three other areas of the TPFF: the area along the south and west sides of DFM tank D-4; an area in the vicinity of the former DFM and waste oil tank D-5, near monitoring well MW9-12; and an area surrounding monitoring well KWM-01, which was reported to previously contain free product (Geraghty & Miller, 1987). Free product was also encountered at the USCG facility in SB-101 north of the basketball court.

3.2.2 Groundwater Contamination Analytical results indicate petroleum contamination in groundwater at the site. TRPH laboratory analyses for groundwater samples collected from soil borings are summarized in Table 3-2. Groundwater laboratory analyses for samples collected from monitoring wells are summarized in Table 3-3. Groundwater sample laboratory data sheets are attached in Appendix E, Groundwater Sample Laboratory Data.

Volatile organic aromatics (VOAs; including benzene), polynuclear aromatic hydrocarbons (PAHs; including naphthalenes), TRPH, and lead were detected in groundwater samples. Benzene, VOA, TRPH, and lead groundwater concentrations are herein compared to Class G-III groundwater target levels established by Chapter 17-770, FAC. Because no PAHs (including naphthalenes) target levels have been established for Class G-III groundwater, total naphthalenes concentrations will be compared to Class G-II target levels. Other PAH concentrations will be compared to State groundwater guidance concentrations (FDER, 1989a).

VOAs detected in groundwater samples include benzene, ethylbenzene, toluene, and xylenes. Benzene and total VOA concentrations exceeded the State target level of 200 parts per billion (ppb) in only the sample collected from monitoring well



Source: Geraghty & Miller, Sept., 1988c; International Technology Corp., 1991b

LEGEND

- Approximate area of Free product contamination
- Approximate limit of groundwater contamination exceeding state target levels
- Monitoring well location
- SB-1 ● Soil boring sampling location
- FP Free petroleum product
- NA Not analyzed
- ND Not detected
- 1 Analyzed for TRPH only
- NS Not sampled
- DIESEL (8-10) Tank and designation, type of material in use.
- (8-10) Former tank and underground tank designation
- Underground pipeline
- (8-10) Building and designation
- Berm/gravel road
- ▲ Fire well
- AST Abandoned storage tank
- USCG U. S. Coast Guard
- DFM Diesel fuel marine
- JP-5 Jet propellant 5 jet fuel
- Fence

DEFINITIONS

TRPH – Total Recoverable Petroleum Hydrocarbons
Total VOA – Total Volatile Organic Aromatics
The sum of Benzene, Ethylbenzene, Toluene, and Xylene
Total Naphthalenes – Sum of all Naphthalenes
PAH – Polynuclear Aromatic Hydrocarbons

CHEMICAL CONCENTRATION UNITS

Concentrations reported in parts per billion (ppb), except TRPH, which is reported parts per million (ppm)

FIGURE 3-3
FREE PRODUCT AND GROUNDWATER CONTAMINATION DISTRIBUTION MAP

PRELIMINARY CONTAMINATION ASSESSMENT REPORT
TRUMBO POINT FUEL FARM

NAVAL AIR STATION
KEY WEST, FLORIDA

Table 3-2
Summary of Groundwater Sample Total Recoverable Petroleum Hydrocarbons (TRPH) Analyses, July and August 1993

Preliminary Contamination Assessment Report
Trumbo Point Fuel Farm
Naval Air Station Key West
Key West, Key West, Florida

Boring Designation	Screened Interval (feet bls)	TRPH Concentration (ppm)
SB-1	7 to 9	2
SB-1 Dup	7 to 9	1
SB-6	9 to 11	<1
SB-7	10 to 12	<1
SB-12	10 to 12	<1
SB-25	9 to 11	2
SB-27	9 to 11	550
SB-32	9 to 11	1
SB-32 Dup	9 to 11	18
SB-44	9 to 11	160
SB-52	9 to 11	<1
SB-66	9 to 11	<1
SB-72	9 to 11	<1
SB-85	7 to 9	<1
SB-95	7 to 9	<1
SB-96	7 to 9	170
SB-97	7 to 9	13
SB-97 Dup	7 to 9	12
SB-98	7 to 9	10
SB-99	7 to 9	4
SB-100	7 to 9	16

Notes: bls = below land surface.
ppm = parts per million.
Dup = duplicate sample.

Table 3-3
Summary of Groundwater Sample Laboratory Analyses, August 31 through September 2, 1993

Preliminary Contamination Assessment Report
Trumbo Point Fuel Farm
Naval Air Station Key West
Key West, Florida

Compound	Applied Standard	MW-1D	MW-2D	MW-3D	MW-3D DUP	KWM-08	KWM-09	KWM-20	KWM-24	KWM-25	MW9-11	MW9-13
Benzene	[1]200	<1	<1	<1	<1	2	220	2	<1	<1	<1	<1
Ethylbenzene		<1	<1	<1	<1	3	<50	30	1	<1	<1	<1
Toluene		<1	<1	<1	<1	1	<50	1	<1	<1	<1	<1
Xylenes		<1	<1	<1	<1	16	150	68	10	<1	<1	<1
Total VOAs	[1]200	ND	ND	ND	ND	22	370	101	11	ND	ND	ND
1-Methylnaphthalene		<5	<5	<5	<5	630	1,200	530	1,300	<5	<5	34
2-Methylnaphthalene		<5	<5	<5	<5	710	1,600	600	1,400	<5	<5	35
Total naphthalenes	[2]100	ND	ND	ND	ND	1,340	2,800	1,130	2,700	ND	ND	69
Fluorene	[3]10	<5	<5	<5	<5	<100	<110	<55	260	<5	<5	<5
Phenanthrene	[3]10	<5	<5	<5	<5	<100	<110	<55	430	<5	<5	<5
Total PAHs	[3]10	ND	ND	ND	ND	ND	ND	ND	690	ND	ND	ND
TRPH	[1]5	<1	<1	<1	<1	280	640	130	240	<1	<1	65
Lead	[1]50	<10	<10	<10	<10	<5	9	10	<5	77	<5	9

[1] State target level for Class G-III groundwater (Chapter 17-770, Florida Administrative Code [FAC]).
[2] State target level for Class G-II groundwater (Chapter 17-770, FAC).
[3] Groundwater guidance concentration (Florida Department of Environmental Regulation [FDER], 1989a).

Notes: Concentrations are in parts per billion, except TRPH which is reported in parts per million.
DUP = duplicate sample.
Total VOAs = total volatile organic aromatics (the sum of benzene, ethylbenzene, toluene, and xylenes).
Total naphthalenes is the sum of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene.
Total PAHs = total polynuclear aromatic hydrocarbons, excluding naphthalenes.
TRPH = total recoverable petroleum hydrocarbons.
ND = not detected.

KWM-09, located near JP-5 tank 3. (Total VOAs is the sum of benzene, ethylbenzene, toluene, and xylenes.)

Total naphthalenes (the sum of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene) were detected in concentrations exceeding the State G-II groundwater target level of 100 ppb in the samples collected from monitoring wells KWM-08, KWM-09, KWM-20, and KWM-24.

PAHs were detected in only the sample collected from monitoring well KWM-24, located near tank D-6. Fluorene and phenanthrene concentrations of 260 ppb and 430 ppb, respectively, exceed the State groundwater guidance concentration of 10 ppb.

TRPHs were detected at concentrations exceeding the Class G-III groundwater State target level of 5 ppm in the samples collected from soil borings SB-27, SB-32, and SB-44 at the TPFF, and soil borings SB-96, SB-97, SB-98, and SB-100 at the USCG facility. TRPHs were also detected in concentrations above 5 ppm in samples collected from monitoring wells KWM-08, KWM-09, KWM-20, KWM-24, and MW9-13.

Lead concentrations exceeding the Class G-III State target level of 50 ppb was detected in only the sample collected from monitoring well KWM-25, located east of former DFM tank D-4.

3.2.2.1 **Areal Extent of Groundwater Contamination** The approximate areal extent of groundwater contamination is presented on Figure 3-3. Groundwater contamination is widespread throughout the TPFF, except along the southern part of the site. The eastern and western extent of groundwater contamination, however, has not been adequately assessed. Groundwater contaminant migration in the northern part of the site is apparently being attenuated by the seawall. However, the potential exists for groundwater contaminant migration into Fleming Key Cut through cracks in the seawall (Geraghty & Miller, 1988c) or under the seawall.

Groundwater contamination detected at the USCG facility also has not been adequately assessed. Current data indicate, however, that contamination at the USCG facility may result from onsite petroleum product releases and contaminant migration from the TPFF.

3.2.2.2 **Vertical Extent of Groundwater Contamination** Monitoring wells MW-1D through MW-3D were installed to assess possible contaminant migration below the seawall on the northern site boundary and the vertical extent of contamination on the western boundary of the TPFF. No contaminants were detected in samples from the three vertical extent wells. Wells MW-1D, MW-2D, and MW-3D were screened over intervals ranging from 40 to 50 feet bls, which indicates that contamination in the vicinity of these three wells does not exceed 40 feet bls. Deep vertical migration of petroleum contamination does not appear to be occurring along the northern and western boundaries of the TPFF; however, the extent of contaminant migration at depths ranging from 15 feet to 40 feet bls has not been evaluated. Also, there are little data to assess the vertical extent of groundwater contamination in other areas at the TPFF, particularly areas where free product was observed.

ENVIRONMENTAL BASELINE SURVEY
NAS KEY WEST REALIGNMENT PROPERTIES

APPENDIX G

REFERENCES

REFERENCES

1. Preliminary Contamination Assessment Report, Trumbo Point Fuel Farm, NAS Key West, Fla., ABB Environmental Services, Inc., 1994, Contract No. N62467-89-D-0317.

2. Key West Tank Removals 1996, NAS Key West, Fla., EEI Project No. 95-1901.10.

3. Free Product Recovery System, Trumbo Point Fuel Farm, NAS Key West, Fla., Bechtel Environmental, Inc., 1995, Contract No. N62467-93-D-0936.

4. Lead & Asbestos Survey, NAS Key West, Fla., 1995, Conducted by Navy Public Works Pensacola, Fla.

5. Environmental Database Inc., Data Search for Trumbo Road, U.S. Navy Annex - Trumbo Point, NAS Key West, Fla., 1994.

6. Class 2 Property Records, Maintained by U.S. Department of Navy, Southern Division, Naval Facilities Engineering Command, 1993.

ENVIRONMENTAL DATABASE, INC.
7061 S. University Blvd. • Suite 300
Littleton, Colorado 80122
(303) 794-8389 • 1-800-982-4627 • Fax (303) 794-0049

October 11, 1994

Karen Snodgrass
Southern Division NAVFAC
2155 Eagle Drive
P.O. Box 190010
North Charleston, SC 29419-9010

RE: EDI Job No.: 7759
Client PO No.: N0061294M8358(N

Dear Ms. Snodgrass:

EDI is pleased to submit the attached ASTM Standard Data Search including three maps for the following property:

Trumbo Road
U S Navy Annex - Trumbo Point
Key West FL
Monroe County

Please call our customer service department at (303) 794-8389 or (800) 982-4627 if you have any questions or comments.

Sincerely,

Paul Lehnertz
Sales Associate

copy: file

ENVIRONMENTAL DATABASE, INC.
FEDERAL & STATE DATABASE REFERENCE SHEET

FEDERAL INFORMATION SYSTEMS:

National Priorities List (NPL)
This is a record of CERCLA sites which are considered to pose an immediate threat to human health and the environment. This conclusion is reached by the EPA based on the Hazards Ranking Scoring System (HRS), which have scored a 28.5 or higher, and for which a remedial investigation and feasibility study will be performed.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
CERCLIS is the Superfund database which contains information on all aspects of hazardous waste sites from initial discovery to listing on the National Priorities List. Information includes an inventory of sites, planned and actual site activities and financial information.

Superfund Amendments and Reauthorization Act (SARA/TRIS)
The Toxic Release Inventory contains information from facilities on the amounts of over 300 listed toxic chemicals that the facilities release directly to air, water or land, or that are transported off-site. Included are facility data, substance identification, environmental chemical release, off-site waste transfer, and waste treatment/minimization information.

Emergency Response Notification System (ERNS)
ERNS tracks the initial notification of reported oil and hazardous waste spills. The database contains many types of information regarding releases of oil and hazardous substances, including the following: discharger information, date of release, material and amount released, incident location, response action taken, etc.

Resource Conservation and Recovery Act (RCRA)
is the national system for tracking of events and activities related to facilities which generate, transport, and treat, store, ...se of hazardous waste. This data set includes handler identification, permit application status, compliance monitoring and enforcement sensitive information.

RCRA "Subtitle D" (RCRAD) - Permitted solid waste disposal facilities
RCRA "Corrective Action" (RACT) - Permitted facilities with corrective action case files
RCRA RAATS - Administrative Action Tracking Systems.

Facility Index System (FINDS)
FINDS is an inventory of information on facilities regulated/tracked by EPA programs. It was developed to support cross-media analyses as well as regulatory and enforcement actions by pointing to other EPA databases that regulate or track a facility. All facilities that have received an EPA ID number should be in the FINDS database.

National Compliance Data Base (TSCA/FIFRA)
Formerly FIFRA and TSCA Enforcement System (FATES), now information is housed on a regional level as the FIFRA TSCA Tracking System (FTTS), and Section Seven Tracking System (SSTS), described below. The NCDB tracks facility information, inspections, actions, cases, etc... This information is a compliance tracking database supporting the Toxic Substances Control Act.

Permit Compliance System (PCS)
PCS supports the National Pollution Discharge Elimination System under the Clean Water Act. Each permit record contains information which identifies and describes the facility, specifies the pollutant discharges limits, records the actual amounts of pollutants measured in wastewater discharges, and tracks compliance schedules and violations.

Federal Reporting Data System (FRDS)
...cludes information on the Public Water Systems (PWS), including identification information, noncompliance related events ...ons of the Safe Drinking Water Act (SDWA), enforcement actions, identification of significant non-compilers, and informatica ...ariances, exemptions, and waivers.

FEDERAL INFORMATION SYSTEMS CONTINUED:

n Seven Tracking System (SSTS)

tabase includes information on pesticide producing facilities and their parent companies. Included are types and amounts of pesticides, active ingredients, and devices that are produced, sold, or distributed.

PCB Activity Database Set (PADS)

All facilities generating, storing, transporting or disposing of polychlorinated biphenyl.

Aerometric Information Retrieval System (AIRS)

AIRS is the national repository for information about airborne pollution in the Untied States. Contained in the database is facility permit information, emissions and compliance data on pollution point sources, measurements of ambient concentrations of air pollutants, and estimates of area-wide emissions from various sources.

Site Enforcement Tracking System (SETS/PRP)

This database tracks individuals, businesses, municipalities, and other entities that have been identified as being potentially liable to fund or repay environmental cleanup costs.

Civil Enforcement Docket (DOCKET)

The Enforcement Docket tracks information on civil judicial enforcement cases for all environmental statutes.

STATE INFORMATION SYSTEMS:

Superfund/Cleanup Sites (SF)

ate has the right to assemble and maintain a list of State designated - hazardous waste cleanup sites. Some states use the EPA IS as their reporting system, other states have a unique database independent of the EPA sites.

State CERCLIS Equivalent

These are the state equivalents of the Federal CERCLIS records. They are compenduims of sites which are being investigated as potential uncontrolled hazardous waste sites.

State Landfills/Solid Waste Disposal Sites (LF)

This list tracks the active and closed landfills and waste disposal sites reported by each state agency.

Leaking Underground Storage Tanks (LUST)

This state list tracks all reported Leaks and releases from Underground Storage Tanks. The majority of these incidents involve petroleum dispensing facilities.

Registered Underground Storage Tanks (RUST)

The state information system tracks the known and permitted registered underground storage tanks. The majority of these sites involve petroleum dispensing facilities. Some states are also including aboveground tanks.

INTRODUCTION

This report is in no way to be taken as a declaration of the legal status of any property herein mentioned.

The information contained in this report has been gathered from government sources and was the latest available to us at compilation time. While every reasonable attempt has been made to ensure the accuracy of the information contained herein; it is understood that we cannot guarantee the accuracy of the information from the original sources, nor can we guarantee that no transcription or plotting errors have occurred.

For reports that contain maps it is understood that the purpose of these maps is to give the user a "working approximation" of the positions of reported site locations. Due to the level of accuracy for both the base maps themselves and the reported location information, these maps should not be used for purposes more correctly served by professional surveys.

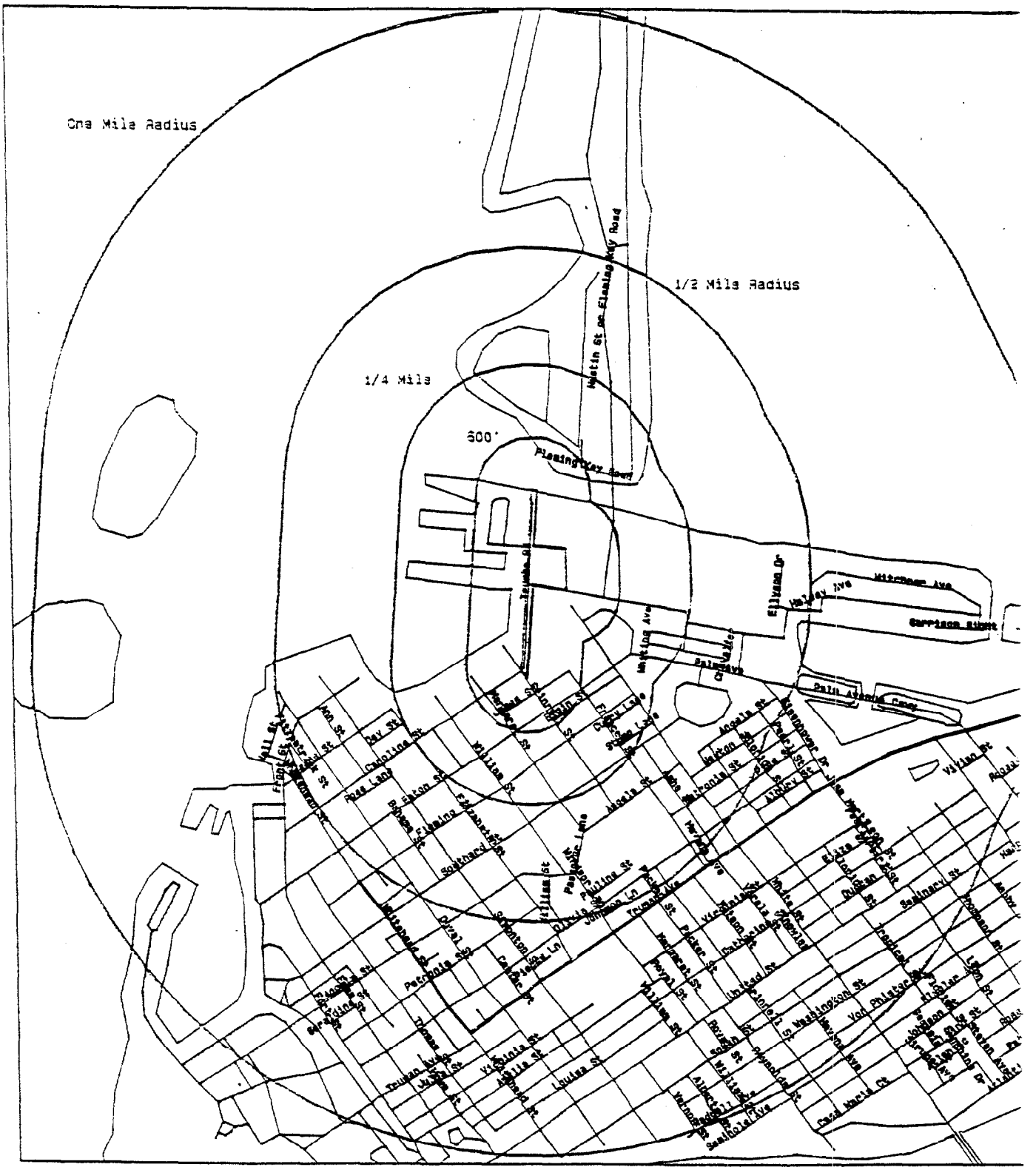
Plotting of environmental information on our maps is dependent in part, on the accuracy of the street grid as represented in our map files. Should the client suspect the existence of, or during the field inspection should the client encounter, streets that are not shown on our maps, this should be brought to our attention to further improve the accuracy of the information contained in this report.

It is to be understood that the publishers of this report are not engaged in rendering legal, accounting or other expert-professional service. The proper use to which this information should be put is best determined by the purchaser.

DATABASE SUMMARY SHEET

DATABASE SEARCHED	RADIUS	ON SITE	IN AREA	ADVISE	ORPHAN	TOTAL	AGENCY UPDATE	LAST CONTACT
FEDERAL								
NPL	1 MILE					0	05/31/94	09/29/94
CERCLIS	½ MILE		2			2	05/31/94	09/29/94
ERNS	SITE					0	12/30/93	09/29/94
RCRA TSD	1 MILE					0	03/31/94	09/29/94
RCRA LG/SM/GEN	600'		2			2	03/31/94	09/29/94
RCRA VIOLATORS	AUTOMATIC					0	03/31/94	09/29/94
STATE								
SUPERFUND	1 MILE					0	12/01/92	08/01/94
CERCLIS	1 MILE					–		
NDFILLS	½ MILE		2			2	06/09/94	09/08/94
KING USTs	½ MILE		13		1	14	01/07/94	05/26/94
REGISTERED USTs	600'		10		1	11	01/07/94	05/26/94

– See Comments Following Page



Trumbo Road - Key West FL
Scale: 1" = 1600' - Site Street Map

MAP LEGEND

ENVIRONMENTAL SITE SYMBOLS

SITE FOR ENVIRONMENTAL DATA SEARCH

RCRA NOTIFIER FACILITY

FIFRA SECTION 7 SITE

NPL/SUPERFUND SITE

FINDS FACILITY

TSCA SITE

CERCLA SITE

AIR FACILITY

US COMMERCIAL NUCLEAR POWER REACTORS

SARA III/TRIS SITE (TOXIC RELEASE INVENTORY FACILITY)

PCS FACILITY

STATE SUPERFUND SITE

ERNS SITE (REPORTED HAZARDOUS MATERIAL SPILL)

AIR MONITORING FACILITY

STATE CERCLIS/CORTESE SITE

RCRA CORRECTIVE ACTION SITE

PCB/PADS FACILITY

REPORTED LEAKING UNDERGROUND STORAGE TANK

LANDFILL OR RCRA SUBTITLE C WASTE LANDFILL

FRDS SITE (PUBLIC DRINKING WATER FACILITY)

REGISTERED UNDERGROUND STORAGE TANK

CULTURAL FEATURES

JONES RD

US Hwy 66

PIPE LINE

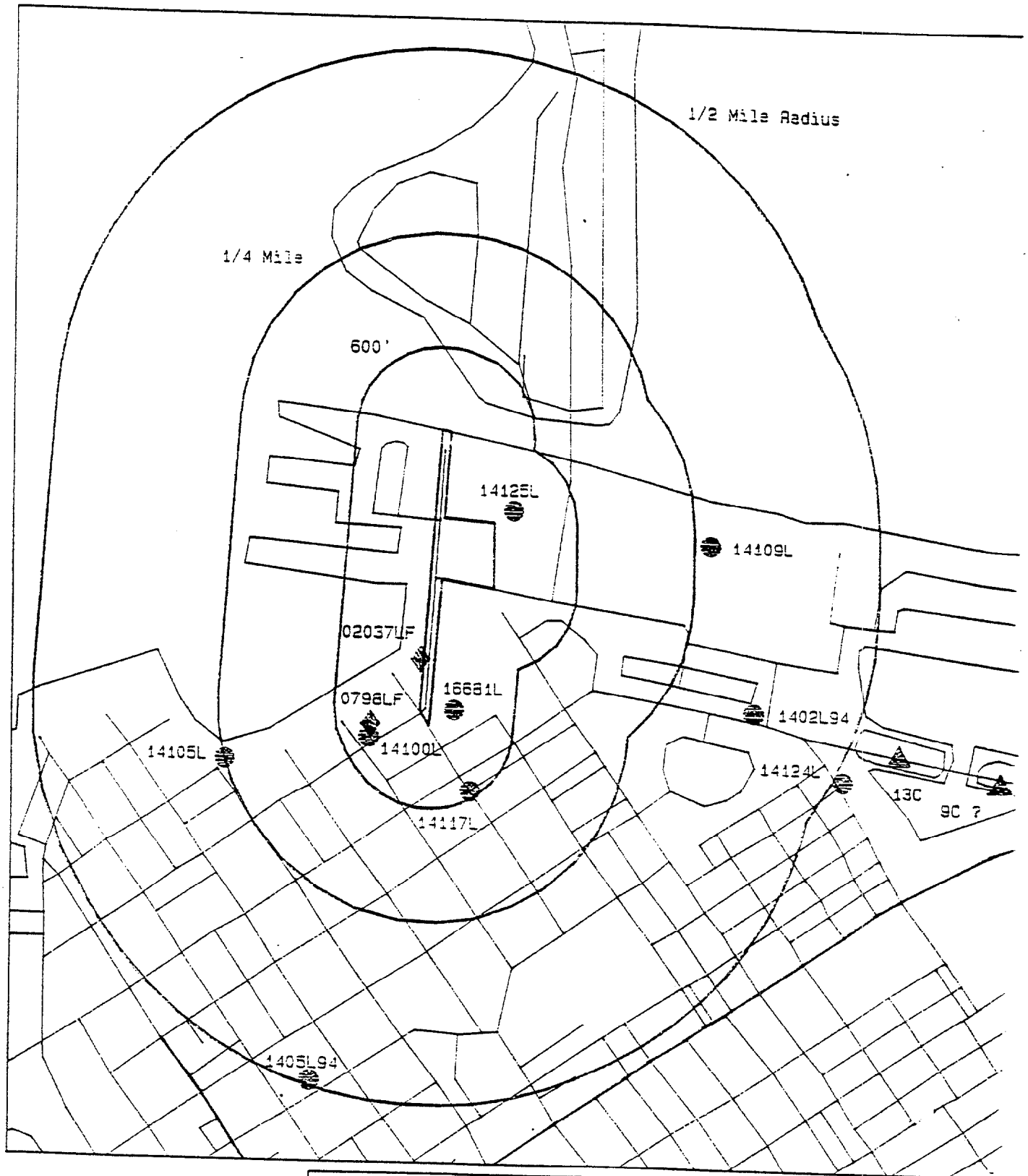
RAILROAD TRACKS

AIRPORT

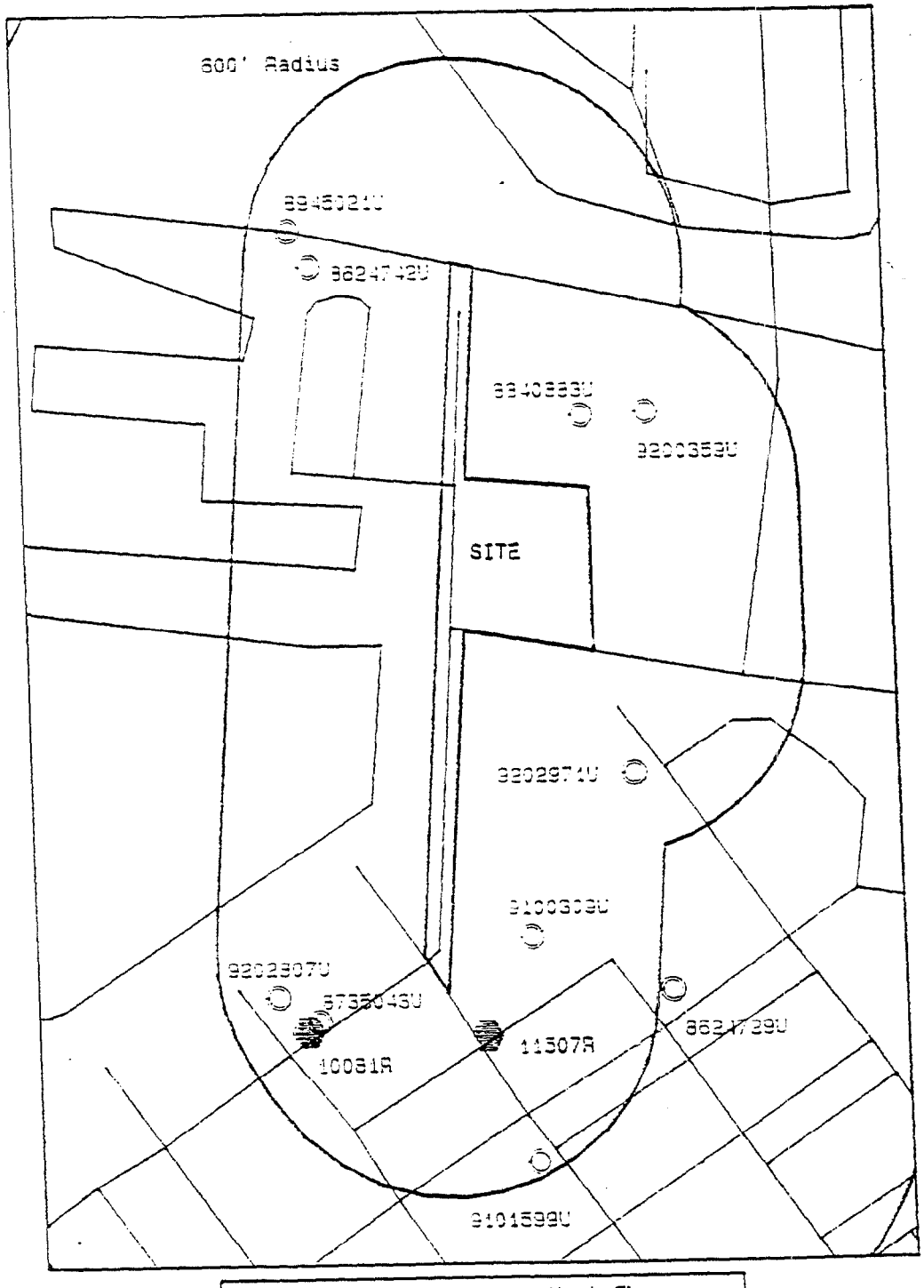
STREAM

LARGE RIVER

POWER LINE



Trumbo Road - Key West FL
Scale: 1" = 1000' - Environmental Map 1



Trumbo Road - Key West FL
Scale: 1" = 500' - Environmental Map 2

FLORIDA
STATE LANDFILL REPORT

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 5244M02037

Map Number: 5244M02037

Facility: UTILITY BD OF KEY WEST/KEY WEST PLT
Address: TRUMBO RD
KEY WEST FL
Lat/Long: 24.33.44/81.47.56
Legal Desc: NOT GIVEN

County: MONROE
Contact: J T DOUGHTRY
Address: P O BOX 1060
KEY WEST FL 33040

ID #: 5244M02037
Permit #: IO44-126208
Status: INACTIVE
Permit Exp: 10/30/91
Qty Waste/Day: NOT GIVEN
Monitoring Wells: 0

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 5244P10798

Map Number: 5244P10798

Facility: CHEVRON USA INC/KEY WEST TERMINAL
Address: 909 CAROLINE ST
KEY WEST FL
Lat/Long: 24.33.43/81.47.55
Legal Desc: 31-67S-25E

County: MONROE
Contact: KEITH D BLATTMAN
Address: PO BOX 189000
PLANTATION FL 33318
305 474-3880

ID #: 5244P10798
Permit #:
Status: INACTIVE
Permit Exp: 09/29/88
Qty Waste/Day: NOT GIVEN
Monitoring Wells: 0

FLORIDA
CERCLIS SITE REPORT

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 9C

Map Number: 9C

Facility:	USCG STATION KEY WEST	EPA ID Number:	FL1690331300
Address:	~~PALM AVE CAUSEWAY~~ Trumbo Key	EPA Region:	04
	KEY WEST FL 33040	Longitude:	081°47' 48
County:	MONROE	Latitude:	24°33' 06
Federal Docket:	**SITE IS ON THE DOCKET**	Last Update:	041593

USGS Hydrological Unit:	03090203
Federal Facility Flag:	FEDERAL FACILITY
Ownership Indicator:	FEDERALLY OWNED
Facility Incident Category:	FEDERAL FACILITY
Facility Classification:	NO DETERMINATION
CERCLIS Status:	
RCRA Flag:	UNKNOWN - NOT GIVEN

Facility Description: SITE REPORTED UNDER RCRA 3010 -PLACED ON FEDERAL FACILITY COMPLIANCE DOCKET

NPL Status: **THE SITE IS NOT AND NEVER HAS BEEN ON THE PROPOSED AND/OR FINAL NPL**

EPA Events That Have Taken Place At The Facility

EVENT	LEAD	DATE	FURTHER ACTION
DISCOVERY	FEDERAL FACILITIES	021288	
PRELIMINARY ASSESSMENT	FEDERAL FACILITIES	091988	NO FURTHER REMEDIAL ACTION PLANNED

Note: Map coordinates incorrectly placed.

FLORIDA
CERCLIS SITE REPORT

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 13C

Map Number: 13C

Facility: NAS TRUMBO POINT
Address: PALM AVE CAUSEWAY
KEY WEST FL 33040
County: MONROE

EPA ID Number: FL2170024473
EPA Region: 04
Longitude: 081°47' 48
Latitude: 24°33' 06

Federal Docket: **SITE IS NOT ON THE DOCKET**

Last Update: 041593

USGS Hydrological Unit: 03090203
Federal Facility Flag: FEDERAL FACILITY

Ownership Indicator: FEDERALLY OWNED
Facility Incident Category: FEDERAL FACILITY
Facility Classification: NO DETERMINATION
CERCLIS Status:
RCRA Flag: UNKNOWN - NOT GIVEN

Facility Description:

NPL Status: **THE SITE IS NOT AND NEVER HAS BEEN ON THE PROPOSED AND/OR FINAL NPL**

EPA Events That Have Taken Place At The Facility

EVENT	LEAD	DATE	FURTHER ACTION
DISCOVERY	FEDERAL FACILITIES	021288	
PRELIMINARY ASSESSMENT	FEDERAL FACILITIES	033188	
SCREENING SITE INSPECTION	FEDERAL FACILITIES	031587	

FLORIDA
RCRA NOTIFIER FACILITY REPORT

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 10081R

Map Number: **10081R**

Facility:	CHEVRON USA INC KEY WEST TERM BULK	EPA ID Number:	FLD000611913
Address:	909 CAROLINE STREET	EPA Region:	04
	KEY WEST FL 330400000	Longitude:	081° 47' 80
County:	MONROE	Latitude:	24° 33' 01
Owner:	JEFFRY A ANGERMANN, ENV SPEC (305)476-3750		
Contact:	JEFFRY A (305)476-3750		

RCRA Facility Designations

Generator Type: NOT A GENERATOR
Transporter Type: UNVERIFIED

Unregulated RCRA Facility Status

Generator Status: CEASED GENERATION OF HAZARDOUS WASTE - CLOSED

RCRA Violation Flags

For the following RCRA Violation categories a YES Notation is referencing the fact that the facility has had (1) or more reported violations in that category.

FLORIDA
RCRA NOTIFIER FACILITY REPORT

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 11507R

Map Number: 11507R

Facility:	CITY ELECTRIC SYSTEM	EPA ID Number:	FLD981019268
Address:	1001 JAMES STREET	EPA Region:	04
	KEY WEST FL 330400000	Longitude:	081° 47' 00
County:	MONROE	Latitude:	24° 33' 01
Owner:	JOHN TAYLOR, CIVIL ENGR (305)294-5272		
Contact:	JOHN TAYLOR (305)294-5272		

RCRA Facility Designations

Generator Type: NOT A GENERATOR
Transporter Type: UNVERIFIED

Unregulated RCRA Facility Status

Generator Status: CEASED GENERATION OF HAZ WASTE IN BUSINESS

RCRA Violation Flags

For the following RCRA Violation categories a YES Notation is referencing the fact that the facility has had (1) or more reported violations in that category.

FLORIDA
REGISTERED UNDERGROUND STORAGE TANKS

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 8624729U

Map Number: 8624729U

Facility:	AAA COOPER TRANSPORTATION	ID #:	448624729
Address:	1101 EATON ST KEY WEST FL 33040		
County:	MONROE		
Owner:	KNIGHT REALTY	3052960946	
Operator:	AAA COOPER TRANSPORATION	3052942539	

Tank #	Size	YR	Contents	Position	Contamination
1	00001000	XX	VEHIC DIESEL	UNDERGROUND	N

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 8624742U

Map Number: 8624742U

Facility:	US COAST GUARD-KEY WEST	ID #:	448624742
Address:	TURMPO POINT PIER D-2 KEY WEST FL 33040		
County:	MONROE		
Owner:	US COAST GUARD-SEVENTH DIST	3052942589	
Operator:	US COAST GUARD	3053505328	

Tank #	Size	YR	Contents	Position	Contamination
1	00010000	XX	VEHIC DIESEL	ABOVEGROUND	N
2	00010000	XX	VEHIC DIESEL	ABOVEGROUND	N

FLORIDA
REGISTERED UNDERGROUND STORAGE TANKS

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 8735043U

Map Number: 8735043U

Facility: CHEVRON-KEY WEST TERMINAL ID #: 448735043
Address: 909 CAROLINE ST
KEY WEST FL 33040
County: MONROE

Owner: CHEVRON USA PRODUCTS CO 4049843051
Operator: JOHN BRADY 3057642107

Tank #	Size	YR	Contents	Position	Contamination
	19810501	*R	9	8	Y
20	00020000	49	LEADED GAS	ABOVEGROUND	Y
21	00077000	49	LEADED GAS	ABOVEGROUND	Y
23	00020000	49	LEADED GAS	ABOVEGROUND	Y
25	00020000	49	LEADED GAS	ABOVEGROUND	Y
26	00485000	49	FUEL OIL-DISTRIBUTION	ABOVEGROUND	Y
29	00256000	49	LEADED GAS	ABOVEGROUND	Y
3	00020000	49	LEADED GAS	ABOVEGROUND	Y
30	00256000	49	LEADED GAS	ABOVEGROUND	Y
31	00256000	49	LEADED GAS	ABOVEGROUND	Y
6	00020000	49	LEADED GAS	ABOVEGROUND	Y
7	00020000	49	LEADED GAS	ABOVEGROUND	Y

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 8840883U

Map Number: 8840883U

Facility: KEY WEST PIPELINE CO ID #: 448840883
Address: TRUMBO POINT NAVAL ANNEX
KEY WEST FL 33040
County: MONROE

Owner: KEY WEST PIPELINE CO 7136271700
Operator: SIMMONS, BILLY 3052944812

Tank #	Size	YR	Contents	Position	Contamination
	19871203	*R	9	9	Y
	19881229	*	0	0	Y
1	00010500	64	JET FUEL	ABOVEGROUND	Y
2	02100000	64	JET FUEL	ABOVEGROUND	Y
3	02100000	64	JET FUEL	ABOVEGROUND	Y

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 8945021U

Map Number: 8945021U

Facility: US COAST GUARD STATION ID #: 448945021
Address: USCG GROUP KEY WEST
KEY WEST FL 33040
County: MONROE

Owner: US COAST GUARD 3052928756
Operator: US COAST GUARD 3052928756

Tank #	Size	YR	Contents	Position	Contamination
1	00003000	80	WASTE OIL	UNDERGROUND	N
2	00002000	74	VEHIC DIESEL	UNDERGROUND	N
3	00002000	86	DIESEL-EMERG GENERATOR	UNDERGROUND	N
4	00002500	90	WASTE OIL	ABOVEGROUND	N
5	00000110	90	DIESEL-EMERG GENERATOR	ABOVEGROUND	N
6	00012000	67	VEHIC DIESEL	ABOVEGROUND	N
7	00012000	67	VEHIC DIESEL	ABOVEGROUND	N
8	00002000	85	DIESEL-EMERG GENERATOR	UNDERGROUND	N

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 9100309U

Map Number: 9100309U

Facility: KEY WEST CITY-POWER PLANT ID #: 449100309
Address: TRUMBO RD
KEY WEST FL 33040
County: MONROE

Owner: KEY WEST CITY ELECTRIC SYSTEM 3052945272
Operator: JIM GREENSHIELDS 3052948449

Tank #	Size	YR	Contents	Position	Contamination
	19920710	*	0	0	Y
	19930617	0	0	0	Y
1	00325000	52	BUNKER 'C' RESIDUAL OIL	ABOVEGROUND	Y
2	00325000	52	BUNKER 'C' RESIDUAL OIL	ABOVEGROUND	Y
3	01000000	54	BUNKER 'C' RESIDUAL OIL	ABOVEGROUND	Y
4	00500000	73	DIESEL-GEN/PUMP	ABOVEGROUND	Y
5	00500000	73	DIESEL-GEN/PUMP	ABOVEGROUND	Y
6	00006500	80	MINERAL ACID	ABOVEGROUND	Y
7	00006500	80	HAZARDOUS SUBSTANCE	ABOVEGROUND	Y

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 9101599U

Map Number: **9101599U**

Facility: EDEN HOUSE ID #: 449101599
Address: 425 GRINNELL ST
KEY WEST FL 33040
County: MONROE

Owner: EDEN, MIKE 3052966868
Operator: EDEN, MIKE 3052966868

Tank #	Size	YR	Contents	Position	Contamination
	19910320	*R	9	9	Y
1	00004000	XX	LEADED GAS	UNDERGROUND	Y
2	00004000	XX	LEADED GAS	UNDERGROUND	Y
3	00000550	XX	WASTE OIL	UNDERGROUND	Y
4	00000550	XX	WASTE OIL	UNDERGROUND	Y

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 9200359U

Map Number: **9200359U**

Facility: US NAVY-TRUMBO POINT FUEL FARM ID #: 449200359
Address: TRUMBO POINT
KEY WEST FL 33040
County: MONROE

Owner: US NAVY-COMMANDING OFFICER 3052932127
Operator: LANCASTER, DIANE 3052922911

Tank #	Size	YR	Contents	Position	Contamination
	19810101	*	0	0	Y
	19910116	*	0	0	Y
	19920302	*	0	0	Y
D1	00586000	42	VEHIC DIESEL	UNDERGROUND	Y
D1292	00014950	62	UNLEADED GAS	ABOVEGROUND	Y
D1293	00014950	62	UNLEADED GAS	ABOVEGROUND	Y
D15	00037485	42	OTHER	UNDERGROUND	Y
D16	00018742	42	LEADED GAS	UNDERGROUND	Y
D17	00018742	42	LEADED GAS	UNDERGROUND	Y
D18	00018742	42	LEADED GAS	UNDERGROUND	Y
D2	00586000	42	VEHIC DIESEL	UNDERGROUND	Y
D21	00010000	42	LEADED GAS	UNDERGROUND	Y
D27	00010000	42	BUNKER 'C' RESIDUAL OIL	UNDERGROUND	Y

D3	00586000	42	VEHIC DIESEL	UNDERGROUND	Y
D4	01155000	42	VEHIC DIESEL	UNDERGROUND	Y
D5	02100000	42	LEADED GAS	UNDERGROUND	Y
D6	01155000	42	LEADED GAS	UNDERGROUND	Y
D7	02100000	42	VEHIC DIESEL	UNDERGROUND	Y
D88A	00025000	XX	UNLEADED GAS	UNDERGROUND	Y
D88B	00025000	XX	UNLEADED GAS	UNDERGROUND	Y
D88C	00025000	XX	UNLEADED GAS	UNDERGROUND	Y
D88D	00025000	XX	UNLEADED GAS	UNDERGROUND	Y

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 9202807U

Map Number: 9202807U

Facility: LANDS END MARINA ID #: 449202807
Address: 231 MARGARETE ST
KEY WEST FL 33040
County: MONROE

Owner: LANDS END MARINA 3052963838
Operator: DON BLANCHE 3052963838

Tank #	Size	YR	Contents	Position	Contaminatior
1	00004500	92	UNLEADED GAS	ABOVEGROUND	N
2	00004500	92	VEHIC DIESEL	ABOVEGROUND	N

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 9202971U

Map Number: 9202971U

Facility: MONROE CNTY SCHOOL BD-TRANSPORTATION ID #: 449202971
Address: 252 WHITE ST
KEY WEST FL 33040
County: MONROE

Owner: MONROE CNTY SCHOOL BD 3052931405
Operator: BOB EUSTIS 3052931478

Tank #	Size	YR	Contents	Position	Contaminatio
1	00002000	92	UNLEADED GAS	ABOVEGROUND	N
2	00002000	92	VEHIC DIESEL	ABOVEGROUND	N

FLORIDA
REGISTERED UNDERGROUND STORAGE TANKS

p Status:	LOCATION UNKNOWN - SITE NOT MAPPED (DISREGARD MAP #) 8628228U		
p Number:	8628228U		
cility:	FAA-KEY WEST VORTAC	ID #:	448628228
dress:	FLEMING KEY KEY WEST FL 33040		
nty:	MONROE		
ner:	FAA MIAMI	3055262510	
erator:	FEDERAL AVIATION ADMINISTRATION	3055262510	

#	Size	YR	Contents	Position	Contamination

FLORIDA
LEAKING UNDERGROUND STORAGE TANK REPORT

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 1402L94

Map Number: **1402L94**

Facility: KEY WEST CITY-PORT & TRANSIT AUTHORITY — ID Number: 8944558
Address: 627 PALM AVE — Track Number:
KEY WEST FL 33040
County: MONROE — Phone: 3052928160

Owner: KEY WEST CITY — Phone: 3052928127
Contact: RAYMONG ARCHER
Address: PO BOX 1409
KEY WEST, FL 33041

Facility Type: LOCAL, CITY GOVERNMENT
Total Incidences: 00001
Date: 02/22/93
Facility Score: 000
Facility Rank: 00000
Total Funded: 00000000

Medium Affected
Soil: N
Surface: N
Groundwater: N
Monitor Well: Y

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 14045L

Map Number: **14045L**

Facility: CHEVRON #47390-MAUN'S — ID Number: 8511701
Address: 1126 TRUMAN AVE — Track Number: 445266
KEY WEST FL 33040
County: MONROE — Phone: 3052963190

Owner: CHEVRON USA PRODUCTS CO — Phone: 4049843051
Contact: CHERYL TENEYCK
Address: PO BOX 1706
ATLANTA, GA 30301

Facility Type: RETAIL STATION
Total Incidences: 00002
Date: 07/15/88
Facility Score: 010
Facility Rank: 07038
Total Funded: 00000000

Medium Affected
Soil: Y
Surface: N
Groundwater: N
Monitor Well: Y

FLORIDA
LEAKING UNDERGROUND STORAGE TANK REPORT

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 1405L94

Map Number: **1405L94**

Facility: KEY WEST CITY-CITY HALL
Address: 525 ANGELA ST
KEY WEST FL 33040
County: MONROE

ID Number: 9200099
Track Number:
Phone: 3052928277

Owner: KEY WEST CITY
Contact: RAYMONG ARCHER
Address: PO BOX 1409
KEY WEST, FL 33041

Phone: 3052928127

Facility Type: LOCAL, CITY GOVERNMENT
Total Incidences: 00001
Date: 09/24/92
Facility Score: 000
Facility Rank: 00000
Total Funded: 00000000

Medium Affected
Soil: N
Surface: N
Groundwater: Y
Monitor Well: N

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 14088L

Map Number: **14088L**

Facility: TRUMAN ANNEX CO FUEL ISLAND
Address: 201 FRONT ST
KEY WEST FL 33040
County: MONROE

ID Number: 8626055
Track Number: 448814
Phone: 3052967988

Owner: TRUMAN ANNEX RETAIL DEVELOPMENT
Contact: ANTHONY F MACINA JR
Address: PO BOX 6200
KEY WEST, FL 33041

Phone: 3056659201

Facility Type: NON-RETAIL BUSINESS
Total Incidences: 00001
Date: 12/04/88
Facility Score: 010
Facility Rank: 00000
Total Funded: 00000000

Medium Affected
Soil: Y
Surface: N
Groundwater: Y
Monitor Well: Y

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 14093L

Map Number: **14093L**

Facility: CIRCLE K #1707
Address: 1109 OVERSEAS HWY
KEY WEST FL 33040
County: MONROE

ID Number: 8628236
Track Number: 444473
Phone: 8136898161

Owner: CIRCLE K CORP
Contact: STEVE BELIN
Address: 500 S FAULKENBURG RD
TAMPA, FL 33619

Phone: 8136898161

Facility Type: RETAIL STATION
Total Incidences: 00001
Date: 11/06/88
Facility Score: 011
Facility Rank: 06461
Total Funded: 00000000

Medium Affected
Soil: Y
Surface: N
Groundwater: N
Monitor Well: N

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 14100L

Map Number: **14100L**

Facility: CHEVRON-KEY WEST TERMINAL
Address: 909 CAROLINE ST
KEY WEST FL 33040
County: MONROE

ID Number: 8735043
Track Number: 440168
Phone: 3057642107

Owner: CHEVRON USA PRODUCTS CO
Contact: CHERYL TENEYCK
Address: PO BOX 1706
ATLANTA, GA 30301

Phone: 4049843051

Facility Type: TERMINAL FACILITY
Total Incidences: 00001
Date: 05/01/81
Facility Score: 011
Facility Rank: 06461
Total Funded: 00000000

Medium Affected
Soil: N
Surface: N
Groundwater: N
Monitor Well: Y

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 14105L

Map Number: **14105L**

Facility: KEY WEST SEAPORT INC — ID Number: 8839946
Address: 631 GREENE ST — Track Number:
KEY WEST FL 33040
County: MONROE — Phone: 3052928117

Owner: KEY WEST CITY — Phone: 3052928117
Contact: RONALD G HERRON
Address: PO BOX 1409
KEY WEST, FL 33040

Facility Type: MARINE FACILITY
Total Incidences: 00002
Date: 08/06/90
Facility Score: 000
Facility Rank: 00000
Total Funded: 00000000

Medium Affected
Soil: N
Surface: N
Groundwater: N
Monitor Well: N

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 14109L

Map Number: **14109L**

Facility: KEY WEST PIPELINE CO — ID Number: 8840883
Address: TRUMBO POINT NAVAL ANNEX — Track Number: 444111
KEY WEST FL 33040
County: MONROE — Phone: 3052944812

Owner: KEY WEST PIPELINE CO — Phone: 7136271700
Contact: MARK RAUCH
Address: 4211 SW FREEWAY #200
HOUSTON, TX 77027

Facility Type: TERMINAL FACILITY
Total Incidences: 00002
Date: 12/03/87
Facility Score: 015
Facility Rank: 05547
Total Funded: 00000000

Medium Affected
Soil: Y
Surface: N
Groundwater: Y
Monitor Well: Y

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 14113L

Map Number: 14113L

Facility: TRUMAN ANNEX CO MAINLAND
Address: FRONT ST
KEY WEST FL 33041
County: MONROE

ID Number: 8944051
Track Number: 447404
Phone: 3055772939

Owner: GRIFFITH, RONALD
Contact: KENNETH D REED V P
Address: 330 E LAMBERT RD
BREY, CA 92621

Phone: 7142557498

Facility Type: NON-RETAIL BUSINESS
Total Incidences: 00001
Date: 05/01/88
Facility Score: 033
Facility Rank: 00000
Total Funded: 00000000

Medium Affected
Soil: Y
Surface: N
Groundwater: Y
Monitor Well: Y

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 14117L

Map Number: 14117L

Facility: EDEN HOUSE
Address: 425 GRINNELL ST
KEY WEST FL 33040
County: MONROE

ID Number: 9101599
Track Number:
Phone: 3052966868

Owner: EDEN, MIKE
Contact: MIKE EDEN
Address: 1015 FLEMING ST
KEY WEST, FL 33040

Phone: 3052966868

Facility Type: NON-RETAIL BUSINESS
Total Incidences: 00001
Date: 03/20/91
Facility Score: 010
Facility Rank: 00000
Total Funded: 00000000

Medium Affected
Soil: Y
Surface: N
Groundwater: N
Monitor Well: N

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 14124L

Map Number: 14124L

Facility: GARRISON BIGHT MARINA INC — ID Number: 9102883
Address: 711 EISENHOWER DR — Track Number:
KEY WEST FL 33040
County: MONROE — Phone: 3052943093

Owner: GARRISON BIGHT MARINA INC — Phone: 3052943093
Contact: H RICHARD BERVALDI
Address: 711 EISENHOWER DR
KEY WEST, FL 33040

Facility Type: MARINE FACILITY
Total Incidences: 00001
Date: 08/29/91
Facility Score: 000
Facility Rank: 00000
Total Funded: 00000000

Medium Affected
Soil: Y
Surface: N
Groundwater: N
Monitor Well: N

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 14125L

Map Number: 14125L

Facility: US NAVY-TRUMBO POINT FUEL FARM — ID Number: 9200359
Address: TRUMBO POINT — Track Number:
KEY WEST FL 33040
County: MONROE — Phone: 3052922911

Owner: US NAVY-COMMANDING OFFICER — Phone: 3052932127
Contact: WILLIAM L CARTES
Address: NCTAMS LANT DET
KEY WEST, FL 33040

Facility Type: FEDERAL GOVERNMENT
Total Incidences: 00003
Date: 01/01/81
Facility Score: 000
Facility Rank: 00000
Total Funded: 00000000

Medium Affected
Soil: Y
Surface: N
Groundwater: Y
Monitor Well: N

Map Status: IN SEARCH AREA - SITE MAPPED (REFER TO MAP #) 16681L

Map Number: **16681L**

Facility: KEY WEST CITY-POWER PLANT — ID Number: 9100309
Address: TRUMBO RD — Track Number:
KEY WEST FL 33040
County: MONROE — Phone: 3052948449

Owner: KEY WEST CITY ELECTRIC SYSTEM — Phone: 3052945272
Contact: ROBERT PADRON
Address: 1001 JAMES ST
KEY WEST, FL 33040

Facility Type: LOCAL, CITY GOVERNMENT
Total Incidences: 00002
Date: 07/10/92
Facility Score: 000
Facility Rank: 00000
Total Funded: 00000000

Medium Affected
Soil: N
Surface: N
Groundwater: N
Monitor Well: N

FLORIDA
LEAKING UNDERGROUND STORAGE TANK REPORT

Map Status: LOCATION UNKNOWN - SITE NOT MAPPED (DISREGARD MAP #) 14119L

Map Number: 14119L

Facility: KEY WEST CITY-DIESEL PLANT
Address: ANGELA ST
KEY WEST FL 33040
County: MONROE

ID Number: 9101950
Track Number:
Phone: 3052962133

Owner: KEY WEST CITY
Contact: RONALD G HERRON
Address: PO BOX 1409
KEY WEST, FL 33040

Phone: 3052928117

Facility Type: LOCAL, CITY GOVERNMENT
Total Incidences: 00001
Date: 03/07/91
Facility Score: 009
Facility Rank: 08461
Total Funded: 00000000

Medium Affected

Soil:	N
Surface:	N
Groundwater:	Y
Monitor Well:	Y

ENVIRONMENTAL BASELINE SURVEY
NAS KEY WEST REALIGNMENT PROPERTIES

APPENDIX F

PRELIMINARY CONTAMINATION ASSESSMENT REPORT